Armfield, A. North American Birds (1874)

HARVARD UNIVERSITY.



LIBRARY

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MUSEUM OF COMPARATIVE ZOÖLOGY.

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MUSEUM OF COMPARATIVE ZOOLOGY MASS.

CATALOGUE

OF

NORTH AMERICAN SHELLS

LIBRARY M.V.S. COMP. ZOOLOGY CAMBRIDGE, MASS.

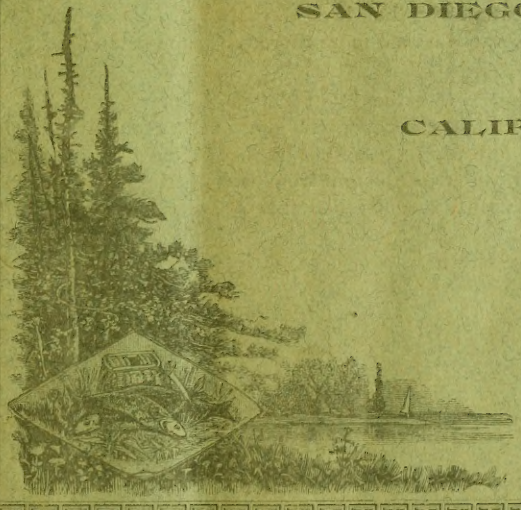
COLLECTED AND FOR SALE BY

HENRY HEMPHILL,

SAN DIEGO,

CALIFORNIA,

U. S. A.



1890.

NOTE.

The following list of shells is made from my own personal collections, which probably embraces the largest number and best series of American shells that has ever been offered to the student for close scientific study. The large number of varieties offered add very much to the value of the series, but it must be understood that some of them do not represent very great differences from the preceding or the following variety or specie. The object being to show their relations to one another by a closely graded series of intermediate forms. In some instances I have not been able to do this, yet for the most part they are so arranged that their relationship can be easily inferred.

I have reduced many of the so-called species to varieties and am convinced that very many more should be treated in the same manner. Some conchologists may differ from me in this particular, but while I esteem their opinions highly I must be true to my own convictions and trust to further study to prove the truth of my position.

Next to the objects themselves I regard variation as the most instructive and important part of the study of conchology, and when the student has become fairly familiar with it, he will find it possesses a charm rarely found in other fields of investigation. The Land Shells are largely arranged in groups, as suggested by the form and sculpturing of the shells, and I have placed at the head of each group the species that seem to be the progenitor of those that follow.

In this arrangement of the land shells, very little attention has been given to genera or subgenera as I think it best to follow nature wherever she leads rather than to follow altogether the vagaries of systematists and parlor students. This arrangement may also serve, not only to attract attention to the relations existiug between the individuals of each group, but to the necessity of some more natural classification of these interesting little animals. I am strongly impressed that no system of classification can be devised that will be acceptable to a majority of Naturalists until the laws of variation are more thoroughly understood, for they are the key to the system.

The nomenclature has been brought down to the latest date, and every effort has been made to make the series as scientifically correct as possible, and especial attention is invited to the fact that all the shells listed on the following pages have been collected by myself personally, and have not been picked up by travellers, or bought from irresponsible persons, so that the localities given with each specie or variety can be relied upon as strictly correct.

HENRY HEMPHILL.

HEMPHILL'S CATALOGUE

OF

North American Shells

CLASS CEPHALOPODA.

FAMILY OCTOPODIDÆ.

GENUS OCTOPUS.

1 O. punctatus. Gabb.. California.....$1 50
2 O. " young and eggs 1 00

FAMILY SPIRULIDÆ.

3 S. Peroni, Lam. Florida 25

CLASS GASTROPODA.

FAMILY MURICIDÆ.

GENUS MUREX.

Subgenus Chicoreus.

4 M. rufus, Lam. Florida 25

Subgenus Phyllonotus.

5 M. Pomum, Gmel. Florida..... 25

Subgenus Pteronotus.

6 M. festivus, Hds. California..... 20
7 M. Californicus, Hds. Lower Cal..... 25
8 M. trialatus, Sowb. " " 50

GENUS CEROSTOMA.

9 C. foliatum, Gmel. California
10 C. Nuttalli, Conr. California..... 20
11 C. " var. broad banded..... 20
12 C. " var. narrow white 20
13 C. " var. " banded..... 20
14 C. " var. " dark 20
15 C. " var. monoceros. Low.Cal.. 25

GENUS EUPLEURA.

16 E. caudata, Say. Florida..... 10
17 E. " var. darker 10

GENUS OCINEBRA.

18 O. incisus, Brod. California 25
19 O. alveatus, Kiener. Florida..... 15
20 O. nuceus, Morch. Florida..... 15
21 O. Poulsonii, Nutt. California..... 15
22 O. lurida, Midd. California..... 10
23 O. " var. " " 10
24 O. " var. " " 10
25 O. " var. " " 10
26 O. " var. " " 10
27 O. circumtexta, Stearns. California... 10
28 O. " var. " " ... 10
29 O. interfossa, Cpr. California 10
30 O. " var. " " 10
31 O. " var. " " 10
32 O. gracillima, Stearns. California..... 10
33 O. " var. " " 10

GENUS MURICIDÆ.

34 M. multangula, Philippi. Florida.....$0 15
35 M. Floridana, Conr. Florida..... 10
36 M. " var. " 10

GENUS UROSALPINX.

37 U. cinereus, Say. Florida 10
38 U. perrugatus, Conr. "
39 U. " small. "
40 U. Tampaensis, Conr. " 10
41 U. " var. " 10

FAMILY PURPURIDÆ.

GENUS PURPURA.

42 P. deltoidea, Lam. Florida..... 15
43 P. hæmastoma, Linn. Lower Cal. ... 25
44 P. " var. smooth. " " ... 25
45 P. " var. undata, Lam. Fla.... 15
46 P. " var. Floridana, Conr. Fla. 15

Crispy-foliated forms.

47 P. crispata, Chem., dark. Puget Sound. 25
48 P. " var. banded. " " 25
49 P. " var. white. " " 25

Foliations becoming obsolete.

50 P. crispata, var. chocolate. Cal..... 15
51 P. " var. lemon-color. Cal.... 15

Smooth forms.

52 P. crispata, var. banded. Puget Sound. 15
53 P. " var. white. " " 15
54 P. " var. septentrionalis. Rve. Cal. 15
55 P. " var. " Dark. Cal. 15
56 P. " var. " Banded Cal. 15
57 P. lima, Martyn, dark. Cal..... 15
58 P. " var. white. Cal..... 15
59 P. " var. small. " 15
60 P. " var. canaliculata, Ducl. Cal.
61 P. Saxicola, Val. large. California.... 15
62 P. " var. " ... 15
63 P. " var. Puget Sound..... 10
64 P. " var. black. Puget Sound 10
65 P. " var. narrow. " " 10
66 P. " var. banded. " " 10
67 P. " var. reddish. California. 10
68 P. " var. Scaly sculpture. Cal. 10
69 P. " var. very small. Cal..... 5
70 P. " var. ostrina, Gld. Cal... 5
71 P. " var. " chocolate 5
72 P. " var. " reddish 5
73 P. " var. " banded 5
74 P. " var. " variable 5
75 P. " var. " white 5

GENUS SISTRUM.

76 S. nodulosum, C. B. Ad. Florida..... 5
77 S. ferrugineum. Rve. Lower Cal..... 10

GENUS MONOCEROS.

78 M. lugubre, Sowb. large., Lower Cal. $0 20
79 M. " var. stumpy. " 20
80 M. " var. small. " 10
81 M. " var. " 15
82 M. " var. " 15
83 M. engonatum, Conr. Cal. & L. Cal. 10
84 M. " var. Lower Cal 10
85 M. " var. intermediate ... 5
86 M. " var. spiratum, Blainv 10
87 M. " var. 5
88 M. " var. small 5
89 M. engonatum, var. lapilloides. Conr. Cal..... 10
90 M. engonatum, var. lapilloides, globose. Lower California..... 10
91 M. engonatum, var. paucilirata Stearns. Cal..... 15
92 M. engonatum, var. paucilirata, typical, Cal..... 15

GENUS CHORUS.

93 C. Belcheri, Hds. California 75

FAMILY TRITONIDÆ.

GENUS TRITON.

94 T. femorale, Linn.....

GENUS RANELLA.

95 R. Californica. California..... 25

FAMILY FUSIDÆ.

GENUS FUSUS.

96. F. Kobelti, Dall. California.....

SUBFAMILY FASCIOLARIINÆ.

GENUS FASCIOLARIA.

97 F. tulipa, Linn. Florida 25
98 F. " var. " 25
99 F. distans, Lam. " 25
100 F. " var. " 25
101 F. gigantea, Kiener. " 1 35
102 F. " var. like princeps, Fla.. 1 50

GENUS LATIRUS.

103 L. Coyhuesonicus, Sowb. Florida ... 50

GENUS LEUCOZONIA.

104 L. cingulifera, Lam. Florida.. 20

FAMILY BUCCINIDÆ.

GENUS MELONGENA.

105 M. corona, Gmel. incurved spines. Fla. 50
106 M. " var. double row of spines. Florida..... 50
107 M. " var. Florida..... 50

GENUS FULGAR.

108 F. perversus, Linn., very large. Fla... 1 00
109 F. " var. Fla..... 1 00
110 F. pyrum, Dillw. " 25

GENUS EUTHRIA.

111 E. dira, Rve. California..... 10

GENUS CANTHARUS.

112 Cantharus, tincta. Conr. Florida..... 15
113 " " var. " 15
114 " " var. " 15
115 " " var. " 15
116 " " var. " 15
117 " " var. " 15
118 Cantharus elegans, Gray. Lower Cal...$0 25
119 " lugubis. C. B. Ad. " 25
120 " cancellaria, Conr. "

GENUS MACRON.

121 M. æthiops, Rve. deep grooves. L. Cal. 50
122 M. Kelletti, Fbs. smooth. Lower Cal. 50
123 M. lividus, A. Ad. Cal. & Lower Cal.. 10

GENUS PHOS.

124 P. parvus, C. B. Ad. Florida 20

FAMILY NASSIDÆ.

GENUS NASSA.

125 N. vibex, Say., large. Florida..... 5
126 N. " var. medium. " 5
127 N. " var. small. " 5
128 N. " var. dark. " 5
129 N. " var. white. " 5
130 N. " var. " small. " 5
131 N. " var. tegula, Rve. Cal. 5
132 N. " var. " medium. " 5
133 N. " var. " small. " 5
134 N. ambigua, Mont. Florida..... 10
135 N. " var. " 15
136 N. fossata, Gld. large. California..... 15
137 N. " var. small. " 15
138 N. perpinguis, Hds. " 15
139 N. mendica, Gld. " 10
140 N. " var. Cooperi, Cpr. Cal.... 10
141 N. obsoleta, Say. Florida..... 5

FAMILY TURBINELLIDÆ.

GENUS VASUM.

142 V. muricatum, Born. Florida.. 50

FAMILY MITRIDÆ.

GENUS MITRA.

143 M. maura, Swains. Lower Cal.. 25
144 M. microzonias, Lam. Florida... 15
145 M. Floridana, Dall. " 25
146 M. albocinctus, C. B. Ad. " 15
147 M. Hanleyi, Dohn. " 15

FAMILY MARGINELLIDÆ.

GENUS ERATO.

148 E. vitellina, Hds. California 25
149 E. Columbella, Mke. " 25

GENUS MARGINELLA.

150 M. opalina, Stearns. Florida... 25
151 M. aureocincta, " " 25
152 M. carnea, Storer. " 25
153 M. apicina, Mke, " 5
154 M. " var. " 5
155 M. " var. virginea Jouss. Fla.. 10
156 M. Jewetti, Cpr. California. 5
157 M. regularis, Cpr. " 5
158 M. " var. " 5
159 M. minuta, Pfr. Florida 5
160 M. lacrimula, Gld. " 5
161 M. pyriformis, Cpr. California. 5

Subgenus Persecula.

162 M. Sagatata, Hds. Florida..... 10

Subgenus Volvaria.

163 M. succinea, Conr. Florida..... 5
164 M. " var. " 5
165 M. varia, Sby. California..... 5

FAMILY OLIVIDÆ.

GENUS OLIVELLA.

166 O. mutica, say. Florida.....$0 05
167 O. " var. " 5
168 O. " var. " 5
169 O. jaspidea, Gmel. " 15
170 O. floralia, Duclos. " 10
171 O. boetica, Cpr. California..... 5
172 O. " var. " 5

GENUS OLIVA.

173 O. arenosa, var. Lam. Lower Cal. .. 25
174 O. litterata, Lam. Florida 20

Subgenus Callinax.

175 O. biplicata, Sby. California 5
176 O. " var. " 5
177 O. " var. " 5

FAMILY COLUMBELLIDÆ.

GENUS COLUMBELLA.

178 C. fuscata, Sowb. Lower California... 10
179 C. mercatoria, Linn. Florida..... 5
180 C. " var. " 5
181 C. " var. 5
182 C. " var. " 5
183 C. rustica, Linn. " 5
184 C. " var. " 5
185 C. humerosa, Cpr. Lower California 5

Section Alia.

186 C. carinata, Hds. California..... 5
187 C. " var. Hindsii, Rve 5
188 C. " var. gausapata, Gld 5
189 C. " var. California, Cpr 5
190 C. " var. Gouldii, Cpr. 5
191 C. " var. " " 5
192 C. " var. " " 6

Section Mitrella.

193 C. cribraria, Lam. Florida..... 5
194 C. " var. small. Florida. ... 5
195 C. cervinetti, Cpr. Lower California 5
196 C. lunata, Say. Florida..... 5
197 C. aurantiaca, Dall. California..... 5
198 C. tuberosa, Cpr. " 5
199 C. " var. " 5
200 C. chrysalloidea, Cpr. " 10

Section Anachis.

201 C. coronata, Sowb. Lower California 5
202 C. acuta, Stearns. Fla..... 5
203 C. avara, Say. Fla..... 5
204 C. " var. semiplicata, Stearns. Fla.. 5
205 C. ornatus, Lam. Fla..... 5
206 C. " var. " 5
207 C. " var. " 5
208 C. pulchella, Kiener. Fla..... 5
209 C. " var. Florida 5
210 C. " var. " 5
211 C. " var. " 5

Section Seminella.

212 C. pulchrior, A. Ad. Lower Cal 5
213 C. tincta, Cpr. Lower Cal..... 5
214 C. Gaskoini, Cpr. " 4
215 C. ostreicola, Melville. Fla 5
216 C. penicillata, Cpr. Cal..... 5
217 C. subturrita, Cpr. " 10

GENUS ESOPUS.

218 E. Hemphilli, Stearns. Lower Cal ... 20

GENUS ENGINA.

219 E. turbinella, Kiener. Fla.....$0 15

GENUS AMPHISSA.

220 A. corrugata, Rve. Cal..... 5
221 A. " var. versicolor, Dall. Cal 5
222 A. " var. " " " 5
223 A. " var. " " " 5
224 A. " var. " " " 5
225 A. " var. undata? Cpr. " 5

FAMILY CONIDÆ.

GENUS CONUS.

226 C. Californicus, Hds. California 10
227 C. verrucosus, Hwass. Florida 10
228 C. proteus, Hwass. " 50
229 C. Floridanus, Gabb. "
230 C. Pealei, Green. " 10

FAMILY PLEUROTOMIDÆ.

GENUS DRILLIA.

231 D. inermis, Hds. California..... 15
232 D. penicillata, Cpr..... 15
233 D. " var. California 10
234 D. mæsta, Cpr. Lower " 15
235 D. " var. " 15
236 D. ostrearum, Stearns. Florida..... 15
237 D. " var. " 15
238 D. leucocyma, Dall. " 15
239 D. " var. " 15
240 D. albonodata, Rve. " 25
241 D. thea, Dall. " 25
242 D. " var. " 25
243 D. pudica, Hds. Lower California ... 25
244 D. Hemphilli, Stearns. " ... 25

GENUS MANGILIA.

245 M. balteata, Rve. Florida..... 10
246 M. biconica, C. B. Ad. " 10
247 M. plicosa, C. B. Ad. " 10
248 M. stellata, Stearns. " 10
249 M. " var. filosa. " 10
250 M. atrostyla, Dall. " 10
251 M. limonitella, Dall. " 10
252 M. cerinella, Dall. " 10
253 M. melanitica, Dall. " 25
254 M. merita, Gld. California..... 10

Section Cithara.

255 M. neglecta, A. Ad. Lower California 15
256 M. angulata, Cpr. " 15
257 M. densistriata, Cpr. " 15

GENUS CLATHURELLA.

258 C. sculpta, Cpr. Lower California ... 15
259 C. plicosa, C. B. Ad. Florida..... 5

FAMILY TEREBRIDÆ.

GENUS TEREBRA.

260 T. dislocatus, Say. Florida..... 5
261 T. " var. " 5
262 T. " var. " 5
263 T. concavus, Say. " 5
264 T. " var. vinosa, Dall. Florida 5
265 T. protextus, Conr. Florida..... 5
266 T. " var. lutescens, Dall..... 5
267 T. simplex, Cpr. California 5
268 T. " var. " 5
369 T. albocincta, Cpr. " 5
270 T. " var. " 5
271 T. " var. " 5

FAMILY CANCELLARIIDÆ.

GENUS CANCELLARIA.

272 C. reticulata, Linn. Florida.....

FAMILY STROMBIDÆ.

273 S. gigas, Linn. Florida.....
274 S. bituberculatus, Linn. Florida 25
275 S. " var. small. " 55
276 S. pugilis var. alatus, Gmel. " 25
277 S. " var. nodules obsolete. Fla.. 25

FAMILY CYPRÆIDÆ.

GENUS CYPRÆA.

278 C. exanthema, Linn. Florida.....
279 C. cervus, Linn. "
280 C. spadicea, Gray. California..... 75
281 C. sowerbyi, " Lower Cal 50
282 C. cinerea, Linn. Florida 50

GENUS TRIVIA.

283 T. solandri, Gray, Lower California... 15
284 T. " var, " ... 15
285 T. Californica, Gray, California 15
286 T. quadripunctata, Gray, Florida..... 10

FAMILY OVULIDÆ

GENUS OVULA.

Subgenus Cyphoma.

287 O. gibbosa, Linn. Florida..... 50

Subgenus Neosimnia.

288 O. variabilis, C. B. Ad. Lower Cal..... 25

FAMILY DOLIIDÆ.

GENUS PYRULA.

289 P. papyratia, Say. Florida..... 35

FAMILY NATICIDÆ.

GENUS NATICA.

290 N. canrena, Linn. Florida..... 20
291 N. " var. " 20
292 N. morochiensis, Gmel. Lower Cal... 20
293 N. sp. small, Florida.....

Subgenus Neverita.

294 N. duplicta, Say, Florida..... 20
295 N. Recluziana, Petit, California..... 20

Section Lunatia.

296 N. Lewisii, Gld, Puget Sound 50

Section Mamma.

297 M. uber, Val. Lower California..... 20

GENUS SIGARITUS.

298 S. perspectivus, Say. Florida..... 10

GENUS LAMELLARIA.

299 L. Diegoensis, Dall. California..... 20
300 L. Stearnsii, Dall, "

GENUS VELUTINA.

301 V. lævigata, Linn. California..... 20

FAMILY CALYPTRÆIDÆ.

GENUS CRUCIBULUM.

302 C. scutellatum, Gray. Lower Cal..... 10
303 C. " var, tubiferum, Linn, L. C. 10
304 C. " var. " " 5
305 C. " var. " " 5

GENUS CALYPTRÆA.

306 C. candeana, D'Orb. Florida..... 10

GENUS CREPIDULA.

307 C. fornicata, Say, Florida 5
308 C. onyx, var. rugosa, Nutt. California 5
309 C. adunca, Sowb. " 5
310 C. arenosa, Brod. Lower California... 10
311 C. dorsata, var. lingulata, Gld. Cal.... 5

Section Janicus.

312 C. unguiformis, Say. Florida. 5
313 C. " var. navicelloides, Nutt. California..... 5

Section Crypta.

314 C. aculeata, Gmel. Florida..... 5
315 C. " var. " 5
316 C. " var. " 5
317 C. " var. " 5
318 C. " var. California 10

FAMILY CAPULIDÆ.

GENUS HIPPONYX.

319 H. antiquatus, Linn. Florida & Cal.. 5
320 H. barbatus, Sowb. Lower Cal..... 5
321 H. tumens, Cpr. California..... 10

FAMILY VERMETIDÆ.

GENUS VERMETUS.

322 V. aunellum, Morch. California 15
323 V. squamigerus' Cpr. " 15
324 V. eburneus, Rve. Lower " 15
325 V. Hindsii, Gray. " 15
326 V. lituella, Morch. California... 15

GENUS VERMICULARIA.

327 V. lumbricalis, var. radiculus, Stimpson Florida..... 20
328 V. lumbricalis, var. radiculus. small... 20
329 V. " var. " white... 20
330 V. nigrescens, Dall. Florida... 20
331 V. " sp. " 15
332 V. " sp. " 15
333 V. " sp. Cal..... 15
334 V. " sp. " 15

FAMILY TURRITELLIDÆ:

GENUS TURRITELLA.

335 T. cooperi, Cpr. California..... 15

Subgenus Mesalia.

336 T. acicula, Stimpson. Cal..... 10

FAMILY CÆCIDÆ.

GENUS CÆCUM.

337 C. glubrum, Mont. Cal.....
338 C. glabriformis, Cpr. "
339 C. Orcutti, Dall. "

I regard the above as different forms of one species.

Section Annulata.

340 C. Flordanum, Stimpson. Florida.....
341 C. firmatum, California.....
342 C. crebricinctum, Cpr. Cal.....
343 C. Californica, Dall. "

Section Costulata.

344 C. vestitum, var. inornatum, De'Folin Lower Cal..... 20
345 C. Cooperi, Smith, Florida... 10

Subgenus Meiocerus.

346 C. nitidum, Stimpson. Florida..... 15

FAMILY EULIMIDÆ.

GENUS EULIMA.

347 E. micaus, Cpr. California.....$0 15
348 E. " var. Lower " 15
349 E. conoidea, Kust and Stimpson. Fla.. 15
350 E. subcarinata, D'Orb. Lower Cal..... 20

Subgenus Liostraca.

351 E. rutila, Cpr. Cal..... 25
352 E. Hemphilli, Dall. Fla..... 50
353 E. conica, C. B. Ad. Lower Cal..... 20
354 E. solitaria, C. B. Ad. " 10

FAMILY PYRAMIDELLIDÆ.

GENUS PYRAMIDELLA.

355 P. conica, C. B. Ad. Lower Cal..... 20
356 P. " var. Fla..... 15

GENUS OSCILLA.

357 O. nivea, Morch. Florida..... 20
358 O. insculpta, Cpr. Cal..... 20
359 O. exarata, Cpr. " 25

Subgenus Chrysallida.

360 C. communis, C. B. Ad. Lower Cal... 20
361 C. pumila, Dall, Lower Cal... 20
362 C.

Section Mumiola.

363 C. cincta, Cpr, California..... 15
364 C. amianta, Dall, " 25
365 C. inflecta, Cpr. Lower Cal..... 20
366 C. turricula, De'Folin. " 20

FAMILY TURBONILLIDÆ.

GENUS TURBONILLA.

367 T. tenuicula, Gld. California 10
368 T. " var. " 10
369 T. " var. " 10
270 T. aurantiaca, Cpr. Lower Cal 15
371 T. castaneus, Cpr. Cal..... 15
372 T. torquata, Gld. " 15
373 T. interrupta, Totten. Florida... 15
374 T. " var " 15
375 T. virga, Dall. " 15
376 T. punicea, Dall. " 15
377 T. " sp. " 15
378 T. " sp. " 13

Subgenus Dunkeria.

379 D. laminata, Cpr. California..... 10
380 D. " var. " 10
381 D. " var. " 10

Subgenus Parthenia.

382 P. cedrosa, Dall. Florida..... 25

GENUS ODOSTOMIA.

383 O. satura, Cpr. California..... 10
384 O. gravada, Cpr. " 20
385 O. " ? var. " 20
386 O. straminea, Cpr. " 15
387 O. " var, " 15
388 O. acutidens, Dall. Florida..... 15
389 O. conoidea, Cpr. Lower Cal..... 15
390 O. impressa, Say. Fla..... 5
391 O. " var. granatina, Dall. Fla 15

Section Miralda.

392 O. quinquecincta, Cpr. California..... 15

Section Evalea.

393 O. tenuisculpta, Cpr. Cal..... 15
394 O. " var. incisa, Cpr. Cal 10
395 O. graciliente, Cpr. Cal..... 15

FAMILY IANTHINIDÆ.

GENUS IANTHINA.

396 I. communis, Lam. Fla.....$0 20
397 I. globosa, Swains. " 25
398 I. exiguus, Linn. Cal..... 20

FAMILY SCALARIIDÆ.

GENUS SCALARIA.

399 S. hexagona, Sowb. Lower Cal..... 25
400 S. Hindsii, Cpr. California..... 20
401 S. Indianorum, var. tincta, Cpr. Cal... 15
402 S. angulata, Say. Fla..... 20
403 S. multistriata, Say. "
404 S. subcoronata, Cpr. " 25

Subgenus Opalia.

405 O. crenatoides, Cpr. California..... 20

FAMILY CERITHIDÆ.

GENUS CERITHIUM.

406 C. uncinatum? Gmel. Florida..... 10
407 C. literatum, Born. " 15
408 C. " var. small " 15
409 C. eburneum, Brug. " 10
410 C. muscarum, Gmel " 10
411 C. " var. " 10
412 C. " var. " 10
413 C. " var. " 10
414 C. " var. " 10
415 C. " sp. " 10
416 C. interruptum, Mke. Lower California. 10
417 C. " var. " 10
418 C. " var. " 10

GENUS CERITHIDEA.

419 C. Montagnei, D'Orb. Lower Cal..... 20
420 C. Sacrata, Gld. " 10
421 C. " var. albonodosa, Cpr. L.C. 10
422 C. " var. pullata, Gld. Cal..... 10
423 C. " var. " 10
424 C. " var. " 10
425 C. scalariformis, Say. Fla..... 10
426 C. " var. " 10
427 C. " var. " 10
428 C. turrita, Stearns. " 10
429 C. " var. tenuis, Pfr " 10

GENUS BITTIUM.

430 B. filosum, Gld, California..... 5
431 B. " var. " 5
432 B. " var. " 5
433 B. " var. esurieus, Cpr..... 5
434 B. attenuatum, Cpr. California..... 10
435 B. " var. " 10
436 B. " var. " 10
437 B. " var. " 10
438 B. armillatum, Cpr. " 15
439 B. subplanatum, Cpr. Lower Cal..... 15
440 B. quadrifilatum, Cpr. " 5
441 B. nigrum, Totten. Florida..... 5
442 B. " var. " 5
443 B. " var. " 5
444 B. " var. " 5
445 B. Cerithoides, Dall. Lower Cal..... 15

GENUS CERITHIOPSIS.

446 C. tubercularis, Mont. Cal..... 5
447 C. " var. " 5
448 C. " var. tuberculoides, Cpr. Cal..... 5
449 C. columna, Cpr. Cal..... 10
450 C. subulata, Mont. Florida..... 10
451 C. metaxae, D'Orb. Lower Cal..... 20

GENUS CERITHIOPSIS (Continued).

452 C. Greeni, C.B. Ad. Florida..... 5
453 C. neglecta, C. B. Ad. Lower Cal..... 15
454 C. minimus, Bru. Florida.....
455 C. sp. "

Section Seila.

456 C. assimilata, C. B. Ad. Lower Cal... 10
457 C. terebralis. C. B. Ad. Florida..... 10

GENUS TRIFORIS.

458 T. nigrocinctus, C. B. Ad. Florida..... 10
459 T. adversa, Mont. Lower Cal..... 10
460 T. " var. " 10

FAMILY LITTORINIDÆ.

GENUS LITTORINA.

461 L. rudis, var. sitchana, Phil. A. Puget Sound..... 5
462 L. rudis, var. sitchana, Phil. B. Puget Sound..... 5
463 L. rudis, var. sitchana, Phil. C. Puget Sound..... 5
464 L. rudis var. sitchana, Phil. D. Puget Sound..... 5
465 L. rudis var. sitchana, Phil. E. Puget Sound..... 5
466 L. rudis, var. sitchana, Phil. F. Puget Sound..... 5
467 L. rudis, var. sitchana, Phll. G. Puget Souud..... 5
468 L. rudis, var. sitchana, Phil. H. Puget Sound..... 5
469 L. rudis var. sitchana, Phil. I. Puget Sound..... 5

A fine series of colored varieties.

Section Melarapha.

470 L. scabra, Linn. A. Florida..... 5
471 L. " var. B. " 5
472 L. " var. C. " 5
473 L. " var. D. " 5
474 L. " var. E. " 5
475 L. " var. F. " 5

A series of colored varieties.

476 L. irrorata, Say. Florida..... 5
477 L. " var. " 10
478 L. varia, Brod. Lower Cal..... 5
479 L. planaxis, Nutt. A. California..... 5
480 L. " var. B. " 5
481 L. " var. C. " 5
482 L. " var. D. " 5
483 L. " var. E. " 5
484 L. " var. F. " 5
385 L. " var. G. " 5
486 L. " var. H. " 5
487 L. " var. I. " 5
488 L. " var. J. " 5

Another very fine series of colored varieties.

489 L. ziczac, Chem. Florida..... 5
490 L. scutulata, Gld. A. California..... 5
491 L. " var. B. " 5
492 L. " var. C. " 5
493 L. " var. D. " 5
494 L. " var. E. " 5
495 L. " var. F. " 5
496 L. " var. G. " 5
497 L. " var. H. " 5
498 L. " var. I. " 5
499 L. " var. J. " 5

An attractive and interesting series.

GENUS TECTARIUS.

500 T. muricatus, Born. Fla..... 10
501 T. " var. " 10

GENUS MODULUS.

502 M. Floridanus, Conr. Fla..... 5
503 M. lenticulus, Chem. " 10
504 M. " var. " 10

GENUS LACUNA.

505 L. unifasciata, Cpr. California..... 10
506 L. " var.aurantiaca.Cpr. Cal 15
507 L. porrecta, Cpr. Cal..... 15

FAMILY FOSSARIDÆ.

GENUS ISAPIS.

508 I. fenestrata, Cpr. California..... 15
509 I. obtusa, Cpr. " 15

FAMILY PLANAXIDÆ.

GENUS PLANAXIS.

510 P. lineatus, Da'Casta. Fla..... 5
511 P. " var. " 5
512 P. " var. " 5

Subgenus Diala.

513 D. marmorea, Cpr. Cal..... 10

FAMILY RISSOIDÆ.

GENUS RISSOA.

Section Cingula.

514 R. minuta, Totten. Fla..... 5

Subgenus Alvania.

515 R. acutilirata, Cpr. Cal..... 15
516 R. Carpenteri, Weink. " 10
517 R sp. " 15

GENUS RISSOINA.

518 R. interfossa, Cpr. Cal..... 15
519 R. " var. " 15
520 R. interclathrata, Cpr. MSS. Cal..... 20
521 R. bryerea, Mont. Lower Cal..... 15
522 R. pulchra, C. B. Ad. Florida..... 10
523 R. dubiosa, C. B. Ad. " 10
524 R. decussata, Mont. " 10
525 R. Browniana, D'Orb. " 10
526 R. Chesneli, Mich. " 10
527 R. sp. " 10

GENUS BARLEEIA.

528 B. subtenuis, Cpr. Cal..... 5
529 B. " var. rimata. Cal..... 5
530 B. haliotiphilla, Cpr. " 5

FAMILY JEFFREYSIIDÆ.

GENUS JEFFREYSIA.

531 J. alderi, Cpr. Cal..... 5
532 J. bifasciata, Cpr. " 5
533 J. sp. " 5

FAMILY ASSIMINIIDÆ.

GENUS ASSIMINEA.

534 A. Auberiana, D'Orb. Florida..... 10
535 A. concinna, C. B. Ad. " 5
536 A. Californica, J. G. Cooper. Cal..... 5

Subgenus Paludinella.

537 P. Newcombiana, Hemphill. Cal..... 10

FAMILY TRUNCATELLIDÆ.

GENUS TRUNCATELLA.

538 T. Californica, Pfr. Cal..... 5
539 T. Stimpsonii, Stearns. " 5

GENUS TRUNCATELLA (Continued).

540 T. bilabiata, Pfr. Florida..... 5
541 T. pulchella, Pfr. Fla..... 5
542 T. " var. " 5
543 T caribæensis, Sowb. Fla..... 5
544 T. " var. " 5

FAMILY NERITIDÆ.

GENUS NERITA.

545 N. peloronta, Lam. Fla..... 10
546 N. " var. " 10
547 N. " var. " 10
548 N. " var. " 10
549 N. tessellata, Gmel. Florida..... 5
550 N. " var. " 5
551 N. versicolor, Lam. " 5
552 N. " vnr. " 5
553 N. scabricostata, Lam. Lower Cal..... 15

GENUS NERITINA.

554 N. reclivata, Say. Florida..... 5
555 N. virginea, Linn. " 5
556 N. " var. " 5
557 N. " var. " 5
558 N. " var. " 5
559 N. viridis, Lam. " 15

FAMILY ADEORBIDÆ.

GENUS ADEOBRIS.

560 A. supranitidus, var. Orbigneyi, Fisher Florida..... 15

FAMILY CYCLOSTREMATIDÆ.

GENUS VITRINELLA.

561 V. subplana. Cpr. California..... 15
562 V. Diegoensis, Dall. " 25

FAMILY LIOTIIDÆ.

GENUS LIOTIA.

563 L. fenestrata, Cpr. California..... 15
564 L. acuticostata, Cpr. " 15

FAMILY PHASIANELLIDÆ.

GENUS PHASIANELLA.

565 P. umbilicata, D'Orb. Florida 5
566 P. compta, Gld. California..... 10
567 P. " var. " 10
568 P. " var. pulloides. California.. 10

FAMILY TURBINIDÆ.

GENUS TURBO.

569 T. castaneus, Gmel. Florida..... 10
570 T. " var. " 10

Subgenus Callopoma.

571 C. fluctuosum. Wood, Lower Cal..... 25

Subgenus Astralium.

572 A. longispina, Lam. Florida..... 25
573 A. Americana. Gmel. " 25

Subgenus Pachypoma.

574 P. inequalis, Mont. California..... 25

GENUS LEPTOTHYRA.

575 L. Carpenteriana, Pilsbry. California 5
576 L. " var. " .. 5
577 L. " var. " .. 5
578 L. " var. " .. 5
579 L, paucilirata, Dall. " .. 20
580 L. " var. " .. 10
581 L. bacula, Cpr. California..... 5
582 L. " var. " 5

FAMILY TROCHIDÆ.

GENUS CHLOROSTOMA.

583 C. Brunneum, Phil. California..... 15
584 C. aureotinctum, Fbs. " 15
585 C. gallina, Fbs. " 15
586 C. " var. " A. 15
587 C. " var. tincta. Hemphill. Cal. B. 15
588 C. " var. " " " C. 15
589 C. " var. " " " D. 15
590 C. " var. " funebrale, A. Ad. E. 15
591 C. " var. " " F. 15
592 C. Montereyi, Keiner. California.....

Subgenus Omphalius.

593 C. viridulum, var. ligulatum, Mke. Cal 10
594 C. fasciatus, Born. Florida..... 15

GENUS NORRISIA.

595 N. norrisi, Sowb. California..... 25

GENUS MARGARITA.

596 M. pupilla, Gld. Puget Sound..... 5
597 M. helicina, Fab. Sitka..... 10
598 M. lirulata, var. acuticostata, Cpr. Cal. 10
599 M. " var. parcipicta, Cpr. " 10
600 M. " var. fenuiculata, Cpr. " 10
601 M. " var. succincta, Cpr. " 5

GENUS CALLIOSTOMA.

602 C. canaliculata, Mart. California 20
603 C. costatum, Mart. " 15
604 C. aunulatum, Mart. " 25
605 C. supragranosum, Cpr. " 20
606 C. tricolor, Gabb. " 25
607 C. gemmulatum, Cpr. " 20
608 C. jujubinum, var. Tampaensis. Conr.. Florida..... 20

Subgenus Turcica.

609 T. caffea, Gabb. California.....

GENUS ETHALIA.

610 E. supravallata, Cpr. California..... 10
611 E. " var. invallata, Cpr. Cal... 10

FAMILY HALIOTIDÆ.

GENUS HALIOTIS.

612 H. rufescens, Swains. California..... 50
613 H. Kamtschatkana. Jonas. Washing'n 1 00
614 H. corrugata, Gray. California..... 50
615 H. assimilis, Dall. " 1 00
616 H. splendens, Rve. " 50
617 H. cracherodi, Leach, " 50

FAMILY FISSURELLIDÆ.

GENUS FISSURELLA.

618 F. volcano, Rve. California..... 5
619 F. " var. " 5
620 F. microstoma, Sby. Lower California 10
621 F. alternata, Say. Florida..... 10
622 F. nodosa, Born. " 15

GENUS LUCAPINA.

623 L. crenulata, Sby. California..... 50
624 L. fasciata, Pfr. Florida..... 50

GENUS GLYPHIS.

625 G. aspera, Esch. California..... 20
626 G. pica. Sby. Lower " 25
627 G. murina, Cpr. " 25

GENUS FISSURELLIDÆ.

628 F. calliomarginata, Cpr. California... 50
629 F. bimaculata, Dall. " ... 25
630 F. limatula, Rve. Florida..... 50

FAMILY ACMÆIDÆ.

GENUS ACMÆA.

631 A. punctulata, Gmel. Florida.....$0 10
632 A. mitra, Esch. California..... 10
633 A. instabilis, Gld. " 20

I regard this last species as only a kelp form of A pelta.

Subgenus Collisella.

634 A. pelta. var. Nacelloides, Dall, Cal... 10
635 A. " var. " ... 5
636 A. " var. " ... 5
637 A. " var. " ... 5
638 A. " var. " ... 5
639 A. " var. " ... 5
640 A. " var. " ... 5
641 A. patina, Esch. " ... 5
642 A. " var. " ... 5
643 A. " var. " ... 5
644 A. scabra, Rve. " ... 5
645 A. " var. " ... 5
646 A. " var. " ... 5
647 A. " var. Morchii. Dall. A. " ... 10
648 A. " var. " Dall. B. " ... 10
649 A. asmi, Midd. California..... 10
650 A persona, Esch. " 5
651 A. " var. " 5
652 A. " var. " 5
653 A. " var. " 5
654 A. " var. " 5
655 A. spectrum, Nutt. " 5
656 A. " var. " 5
657 A. " var. " 5
658 A. " var. " 5
659 A. " var. " 5
660 A. depicta, Hds. " 10
661 A. paleacea, Cpr. " 10
662 A. triangularis, Cpr. " 25

GENUS LOTTIA.

663 L. gigantea, Gray. California..... 15

ORDER POLYPLACIPHORA.

FAMILY CHITONIDÆ.

CHITONES REGULARES.

LEPTOIDEA.

GENUS LEPTOCHITON.

664. L. rugatus, Cpr. California..... 10

ISCHNOIDEA.

GENUS TRACHYDERMON.

665 T. dentiens, Gld. California..... 10
666 T. " var. " 10
667 T. " var. " 10
668 T. " var. " 10

Colored varieties.

GENUS TONICELLA.

669 T. lineata, Wood. California..... 10

GENUS CHÆTOPLEURA.

670 C. Hartwegii, Cpr. California..... 10
671 C. " var, " 10
672 C. " var. Nuttalli, Cpr. Cal... 10
673 C. gemmea, Cpr. California..... ... 10
674 C. " var " 10
675 C. janeirensis, Gray. Florida..... 10
676 C. apiculatus, Say. " 20

Subgenus Mangerella.

677 M. conspicua, Cpr. California...$0 20
678 M. " var. A. acrior, Cpr. Cal 30
679 M. " var. B. " Cpr. " 30

GENUS ISCHNOCHITON.

680 I. Cooperi, Cpr. California..... 20
681 I. regularis, Cpr. " 25
682 I. papillosus, C. B. Ad. Florida..... 20
683 I. funiculata, Cpr. " 20

Subgenus Stenoplax.

684 S. lamiciformis, Sowb. Florida..... 25

Subgenus Ischnoplax.

685 I. pectinulatus, Cpr. California..... 15
686 I. " var. " 15

Subgenus Lepidopleurus.

687 L. Mertensi, Cpr. California..... 25

GENUS CALLISTOCHITON.

688 C. fimbriatus, Cpr. California..... 20
689 C. palmulatus, Cpr. " 20
690 C. decoratus, Cpr. " 15

GENUS PALLOCHITON.

691 P. lanuginosus, Cpr. Lower California 25

ACANTHOIDEA.

GENUS ANCANTHOPLEURA.

692 A. piceus, Gmel. Florida..... 25

GENUS NUTTALLIANA.

693 N. scabra, Rve. California..... 15
694 N. " var. " 15

CHITONES IRREGULARES.

MOPALOIDEA.

GENUS MOPALIA.

695 M. ciliata, Sowb.=muscosa. Gld. Cal. 25
696 M. " var. California..... 25
697 M. " var. " 25
698 M. " var. " 25
699 M. lignosa, Gld. " 25
700 M. " var. acuta, Cpr. California 25
701 M. " var. " 25
702 M. Hindsii, Gray. " 25
703 M. " var. " 25
704 M. Wossnessenski, Midd.=Kennerleyi, Cpr. California..... 25
705 M. Wossnessenski, var. California..... 25

Subgenus Placiphorella.

706 P. velata, Cpr. California..... 25

GENUS KATHERINA.

707 K. tunicata, Wood. California..... 25

GENUS ACANTHOCHITON.

708 A avicula, Cpr. California..... 25
709 A. spiculosus, Rve. Florida..... 25

GENUS NOTOPLAX.

710 N. Floridanus, Dall. Florida..... 20

CRYPTOIDEA.

GENUS CRYPTOCHITON.

711 C. stelleri, Midd. California..... 1 00

FAMILY TONATELLIDÆ.

GENUS ACTEON.

712 A. punctatus. D'Orb. California.....

GENUS TORNATINA.

713 T. culcitella, Gld, California.....$0 15
714 T. inculta, Gld. " 5
715 T. " var. " 5
716 T. harpa? Dall. " 10
717 T. carinata, Cpr. " 5
718 T. candei, D'Orb. Florida 5
719 T. canaliculata, Say. " 5
720 T. infrequens, Cpr. Lower California 10

Subgenus Rictaxis.

721 R. punctocælata, Cpr. California.. 15

FAMILY CYLICHNIDÆ.

GENUS AMPHISPHYRA.

722 A. subquadrata, Cpr. California..... 20

FAMILY BULLIDÆ.

GENUS BULLA.

723 B. nebulosa, Gld. California..... 15
724 B. " " 15
725 B. striata, Brug. Florida 15
726 B. occidentalis? Adums. Florida.... .. 15
727 B. succinea, Conr, Florida.. 15

GENUS HAMINEA.

728 H. vesicula, Gld. California.... 15
729 H. virescens, Sby. " 15
730 H. Guildingi, Sowb. " 15

GENUS CYLINDROBULLA.

731 C. Beaui, Fisher, Florida..... 25

FAMILY APLYSIIDÆ.

GENUS APLYSIA.

732 A. protea, Rang. Florida..... 20
733 A. Californica, Cooper. California..... 25

FAMILY AURICULIDÆ.

GENUS CARYCHIUM.

734 C. exiguum, Say. Minnesota. 5
735 C. sp, Washington, Org. 5

GENUS AURICULA.

Subgenus Auriculastrum.

736 A. pellucens, Mke. Florida..... 15

GENUS TRALIA.

Subgenus Alexia.

737 P. myosotis, var.setifer J.G.Cooper,Cal 5

GENUS PEDIPES.

738 P. naticoides, Stearns, Florida..... 15
739 P. elongatus, Dall. " 25
740 P. unisulcatus, J. G. Cooper, California 15

GENUS MELAMPUS.

741 M. coffeus, Linn. Florida 5
742 M. " var. " 5
743 M. " var. " 5
744 M. flavus, Gmel. " 5
745 M. lineatus, Say. " 5
746 M. olivaceus, Cpr, California 5
747 M. " var. " 5
748 M. " var. " 5

Subgenus Detracia.

749 D. bulloides, Mont. Florida 5

Subgenus Sayella.

750 S. Hemphilli, Dall. Florida.....

GENUS BLAUNERIA.

751 B. heteroclita, Mont. Florida$0 15

FAMILY SIPHONARIIDÆ.

GENUS SIPHONARIA.

752 S. alteruata, Say. Florida 5
753 S. " var. Brunnea, Hanley, Fla 5
754 S. lineolata, D'Orb, " 10
755 S. peltoides, Dall. California 10

FAMILY GADINIIDÆ.

GENUS GADINEA.

756 G. reticulata, Sby. California..... 15

FAMILY DENTALIDÆ.

GENUS DENTALIUM.

757 D. hexagonum, Sby. California..... 15
758 D. antillarium, D'Orb. Florida..... 15

CLASS PELECYPODA.

FAMILY TEREDIDÆ.

GENUS TEREDO.

759 T. megatoria, Hanley, Florida..... 25

GENUS XYLOTRYA.

760 X. setacea, Tryon. California..... 25
761 X. stutchberyi, Leach. " 25

FAMILY GASTROCHÆNIDÆ.

GENUS ROCELLARIA.

762 R. ovata, Sowb. Florida..... 25

FAMILY PHOLADIDÆ.

GENUS PHOLAS.

763 P. costata, Linn. Florida 1 00
764 P. Pacifica, Stearns, California..... 50

GENUS ZIRPHÆA.

765 Z. crispata, Linn. California..... 50
766 Z. " var. " 75

GENUS NETASTOMELLA.

767 N. Darwinii, Cpr. California..... 20

GENUS PARAPHOLUS.

768 P. Californica, Conr. California..... 1 00

GENUS PENITELLA.

769 P. penita, Conr. California..... 25
770 P. Ovoidea, Gld. " 50

GENUS MARTESIA.

771 M. cuneiformis, Say. Florida..... 25

FAMILY SOLENIDÆ.

GENUS SOLEN.

772 S. Americanus, Gld. Florida..... 20
773 S. sicareus, Gld. California.....
774 S. " var. rosaceus, Cpr. Cal.. 15

GENUS SILIQUA.

775 S. patula, Dixon. Oregon..... 25

GENUS SOLECURTUS.

776 S. Californianus, Conr. California..... 20
777 S. subteres, Cpr. " 20
778 S. diversa, Speng. Florida..... 20
779 S. gibbus, Speng. " 20

FAMILY SAXICAVIDÆ.

GENUS SAXICAVA.

780 S. arctica, Linn. California.....

GENUS PANOPEA.

781 P. generosa, Gld. Puget Sound..... 1 00

FAMILY MYACIDÆ.

GENUS MYA.

782 M. arenaria, Linn. California..... 20
783 M. truncata, Linn. Puget Sound.....

GENUS PLATYODON.

784 P. cancellatus, Conr. California..... 25

FAMILY CORBULIDÆ.

GENUS CORBULA.

785 C. luteola, Cpr. California..... 10
786 C. " var. " 10
787 C. contracta, Say. Florida..... 10
788 C. sp. " 10
789 C. sp. " 10

GENUS NEÆRA.

790 N. costellata, Desh. Florida 20

GENUS CRYPTOMYA.

791 C. Californica, Conr. California..... 10

FAMILY ANATINIDÆ.

GENUS CLIDIOPHORA.

792 C. punctata, Cpr. California 25

GENUS ASTHENOTHERUS.

793 A. Hemphilli, Dall. Florida..... 25

GENUS THRACIA.

794 T. curta, Conr. California..... 25

GENUS PERIPLOMA.

795 P. argentaria, Conr. California 25

GENUS LYONSIA.

796 L. Californica, Conr. California..... 10
797 L. hyalina, Conr. Florida 10

Subgenus Entodesma.

798 E. inflata, Cpr. California..... 25
799 E. saxicola, Baird, " 20

GENUS MYTILLIMERIA.

800 M. Nuttalli, Conr. California 25

FAMILY MACTRIDÆ.

GENUS MACTRA.

801 M. solidissima, Dill. Florida..... 25
802 M. lateralis, Say. "

Subgenus Hemimactra.

803 M. fragilis, Chem. Florida 25
804 M. nasuta, Conr. California..... 25
805 M. planulata, Conr, " 40
806 M. falcata, Gld. " 40
807 M. Californica, Conr. California

GENUS SCHIZOTHÆRUS.

808 S. Nuttalli, Conr. California..... 50

FAMILY SEMILIDÆ.

GENUS SEMILE.

809 S. decisa, Conr. California..... 35
810 S. orbiculatum, Say. Florida..... 25
811 S. obliqua, Wood, "
812 S. reticulata, Gmel. "
813 S. radiata, Say. "
814 S. cancellata, D'Orb. "
815 S. pulchra, Sby. California..... 20
816 S. rupium, Sby. "

GENUS SYNDOSMYA.

817 S. æqualis, Say. Florida..... 16

GENUS LUTRICOLA.

818 L. alta, Conr. California..... 25

GENUS ŒDALINA.

819 Œ. subdiaphana, Cpr. California..... 25

GENUS CUMINGIA.

820 C. Californica, Cpr. California..... 15
821 C. tellinoides, Conr. Florida..... 20

FAMILY TELLINIDÆ.

GENUS GARI.

822 G. rubroradiata. Nutt. California..... 25

GENUS SANGUINOLARIA.

823 S. Nuttalli, Conr. California..... 25

GENUS TELLINA.

824 T. Bodegensis, Hds. California..... 25
825 T. alternata, Say. Florida..... 15
826 T. Braziliana, Lam. " 15
827 T. " var. " 15
828 T. punicea, Born, Lower California..... 25
829 T. lævigata, Linn. Florida..... 10
830 T. decora, Say. " 25
831 T. Martinicensis, D'Orb. Florida..... 25
832 T. Souleytiana, Recl. " 25

Subgenus Angulus.

833 T. polita, Say. Florida..... 10
834 T. variegata, Cpr. California..... 15
835 T. obtusus, Cpr. Puget Sound..... 15
836 T. modestus, Cpr. California..... 15
837 T. Gouldi, Cpr. " 10

GENUS STRIGILLIA.

838 S. flexuosus, Say. Florida..... 15

GENUS MACOMA.

839 M. fausta, Desh. Florida..... 25
840 M. secta, Conr. California..... 25
841 M. constricta, Brug. Florida..... 25
842 M. proxima, Gray. " 25
843 M. nasuta, Conr. California..... 25
844 M. inquinata, Cpr. " 20
845 M. inconspicua, Br. & Sby. Cal..... 10
846 M. " var. red. " 10

GENUS TELLIDORA.

847 T. lunulata. Holmes. Florida..... 25

FAMILY DONACIDÆ.

GENUS DONAX.

848 D. variabilis, Say. Florida..... 5
849 D. " var. " 5
850 D. " var. " 5
851 D. " var. " 5
852 D. Californicus, Conr. " 5
853 D. " var. " 5
854 D. " var. " 5
855 D. " var. " 5

A series of colored varieties.

856 D. punctostriatus, Hanley. Lower Cal 10
857 D. flexuosus, Gld. California.. 10

Subgenus Heterodonax.

858 H. bimaculatus, D'Orb. California... 5
859 H. " var. " ... 5
860 H. " var. " ... 5

FAMILY PETRICOLIDÆ.

GENUS PETRICOLA.

861 P. cardatoides, Conr. California..... 15
862 P. " var. " 15
863 P. divaricata, D'Orb. Florida.....
864 P. tenuis? Ad. Lower California..... 15

GENUS RUPELLARIA.

865 R. lamellifera, Conr. California 25

GENUS SAXIDOMUS,

866 S. Nuttalli, Conr. California..... 25
867 S. " var. aratus, Gld. California 25

FAMILY VENERIDÆ.

GENUS VENUS.

868 V. mercenaria, Linn. large. Florida..... 50

GENUS CRYPTOGRAMMA.

869 C. flexuosus, Linn. Florida..... 15

Subgenus Chione.

870 C. gnidia, Brod. & Sowb. Lower Cal... 40
871 C. succincta, Val. California..... 20
872 C. cancellata, Linn. Florida..... 20
873 C. simillima, Sby. California..... 20
874 C. " var. undatella, Sby. L. Cal 25
875 C. fluctifraga, Sby. California..... 20

Subgenus Psephis.

876 P. tantilla, Gld. California 20

GENUS CYTHERIA.

877 C. affinis, Gmel. Florida..... 20
878 C. " var. " 20

Subgenus Transenella.

879 T. conradiana, Dall. Florida..... 25
880 T. Cubaniana, D'Orb. Florida..... 25

Subgenus Callista.

881 C. gigantea, Chem. Florida..... 20
882 C. maculata, Chem. " 25
883 C. incerta, Desh. " 20
884 C. chioue, Mke. Lower Cal..... 25

Subgenus Tivela.

885 T. radiata, Sby. Lower California..... 25
886 T. crassatelloides, Conr. " 35

Subgenus, Amiantis.

887 A. callosa, Conr. California..... 25

Subgenus Gouldia.

888 G. cerina, Ad. Florida..... 10

Subgenus Circe.

889 C.? marginata, Cpr. California..... 10

GENUS DOSINA.

890 D. ponderosa, Gray. Lower California. 40
891 D. elegans, Conr. Florida,..... 20

GENUS TAPES,

892 T. tenerrima, Cpr. Puget Sound..... 25
893 T. laciniata, Cpr. California..... 20
894 T. staminea, Conr. " 15
895 T. " var. diversa, " 15
896 T. " var. orbella, " 20
897 T. " var. ruderata, " 20
898 T. " var. Petitii, " 15
899 T. grata, Say. Lower " 15
900 T. " var. " " 15
901 T. " var. " " 15
902 T. " var. " " 15
903 T. " var. " " 15
904 T. " var. " " 15
905 T. " distorted, " " 15

I regard T grata, as only a Southern form of T staminea.

FAMILY CYRENIDÆ.

GENUS CYRENA,

906 C. Carolinensis, Conr. Florida..... 15
907 C. Floridana, Lam. " 15

FAMILY CARDIIDÆ.

GENUS CARDIUM.

908 C. magnum, Born, Florida..... 25
909 C. isocardia, Linn. " 25
910 C. muricatum, Linn. " 25
911 C. corbis, Mont. California..... 25
912 C. quadragenrsium, Conr. California .. 50

Subgenus Liocardium.

913 L. elatum, Sby. California..... 1 00
914 L. serratum, Linn. Florida..... 50
915 L. Mortonii, Conr. Florida..... 10
916 L. " var. substriatum, Conr. Cal 10

FAMILY CHAMIDÆ.

GENUS CHAMA.

917 C. arcinella, Linn. Florida..... 25
918 C. macrophylla, Chem. " 15
919 C. pellucida, Sby. California.. 15
920 C. " var. spinosa, Sby. Cal.... 15
921 C. " var. exogyra, Conr. " ... 10

FAMILY LUCINIDÆ.

GENUS LUCINA.

922 L. Jamaicensis, Speng. Florida 15
923 L. antillarium, Rave. " 15
924 L. strigilla, Stimpson. " 20
925 L. lintea, Conr. " 15
926 L. squamosa, Lam. " 20
927 L. crenulata, Lam. " 20
928 L. pecten, Lam. " 10
929 L. Pennsylvanica, Linn. " 25
930 L. Californica, Conr. California..... 20
931 L. Nuttalli, Conr. " 10

Subgenus Codakia.

932 L. tigerina, Linn, Florida 25

Subgenus Loripes.

933 L. Floridana, Conr. Florida 15

FAMILY DIPLODONTIDÆ.

GENUS DIPLODONTA.

934 D. orbella, Gld. California..... 25
935 D. candeana, D'Orb. Florida..... 25

Subgenus Felania.

936 F. sericata, Rve. Lower California ... 20

FAMILY ERYCINIDÆ.

GENUS MONTACUTA.

Subgenus Tellimya.

937 T. tumida, Cpr. California..... 59

GENUS LASSEA.

938 L. rubra, Mont. California..... 5

GENUS KELLIA.

939 K. Laperousii, Desh. California..... 20
940 K. suborbicularis, Mont. " 15

FAMILY SOLEMYIDÆ.

GENUS SOLEMYA.

941 S. occidentalis, Desh, Florida 25
942 S. voloulus, Cpr. Lower Cal..... 24

FAMILY CRASSATELLIDÆ.

GENUS EURIPHYLA.

943 E. lunulta, Conr. $0 15

FAMILY ASTARTIDÆ.

GENUS PARASTARTE.

944 P. triquetra, Conr. Florida..... 5

FAMILY CARDITIDÆ.

GENUS CARDITA.

945 C. Floridana, Conr. Florida..... 10

GENUS MILNERIA.

946 M. minima, Dall. California..... 20

Subgenus Thecalia.

947 T. concamerata,? Chem. California... 25

GENUS CARDITAMERIA.

948 C. subquadrata, Cpr. California.....

FAMILY NUCULIDÆ.

GENUS NUCULA.

949 N. crenulata, A. Ad, Florida 5
950 N. exigua, Sby. Lower California 10

GENUS LEDA.

951 L. acuta, Conrad. California.....

FAMILY ARCIDÆ.

GENUS ARCA.

952 A. multicostata, Sby. Lower Cal 25
953 A. ponderosa, Say. Florida..... 15
954 A. Reeviana, D'Orb. Lower Cal 25
955 A. solida, Sby. " 20
956 A. Lesteri, Phil, Florida..... 20
957 A. transversa, Say, " 20
958 A. Deshaysii, Hanley. "

Subgenus Barbatia.

959 B. gradata, Sby. Fla., Cal, and L. C.. 10

GENUS PECTUNCULUS.

960 P. pectinatus, Lam. Florida..... ... 15
961 P. intermedia, Brod, California..... 25

FAMILY MYTILIDÆ.

GENUS MYTILUS.

962 M. edulis, Linn, California & Wash 5
963 M. " var. Puget Sound..... 10
964 M. Californicus, Conr. California..... 25
965 M. bifurcatus, Conr. " 15
966 M. exustus, Linn. Florida 15

GENUS MODIOLA.

967 M. capax. Cpr. California..... 25
968 M. " var. Lower " 25
969 M. sulcatus, Lam. Florida..... 10
970 M. plicatula, Lam. " 15
971 M. tulipa, Linn. " 10
972 M. fusca, Gmel. " 25
973 M. recta, Conr. California..... 25
974 M. " var. flabellatus, Puget Sound 25
975 M. papyracea, Conr. Florida..... 25

Subgenus Adula.

976 A. falcata, Gld. California..... 25
977 A. stylina, Cpr. " 20

GENUS LITHODOMUS.

978 L. attenuatus, Desh. Lower California 25
979 L. appendiculatus, Gmel. Florida.....

GENUS MODIOLARIA.

980 M. lateralis, Say. Florida..... 10

GENUS SEPTIFER.

981 S. bifurcatus, Rve. California..... 15

FAMILY AVICULIDÆ.

GENUS AVICULA.

982 A. atlantica, Lam. Florida..... 25

GENUS MELEAGRINA.

983 M. radiata, Lam. Florida.....$0 25

GENUS PERNA.

984 P. ephippium, Lam. Florida..... 15
985 P. chemnitzian, D'Orb. Lower Cal... 15

FAMILY PINNIDÆ.

GENUS PINNA.

986 P. muricata, Linn. Florida..... 35
987 P. carnea, Gmel. " 50

GENUS BRYOPHILA.

988 B. setosus, Cpr. California..... 40

FAMILY SPONDYLIDÆ.

GENUS PLICATULA.

989 P. ramosus, Linn. Florida..... 15

FAMILY LIMIDÆ.

GENUS LIMA.

990 L. inflata, Lam. Florida 25
991 L. orientalis, California..... 25

FAMILY PECTINIDÆ.

GENUS PECTEN.

992 P. subnodosus, Sowb. Lower California
993 P. nucleus, Born, Florida..... 20
994 P. " var. æquisulcatus, Cpr. Cal. 20
995 P. " var. " Cpr. " 20
996 P. irridans, var. dislocatus, Say. Fla... 25
997 P. exasperatus, Sowb. " 50
998 P. " var. " 50
999 P. ornatus, Lam. " 50
1000 P. latiauritus, Conr. California..... 20
1001 P. " var. " 20
1002 P. monotimeris, Conr. " 20
1003 P. " var. " 20
1004 P. antillarium, Recl. Florida... 20

GENUS HINNITES.

1005 H. giganteus, Gray, California..... ... 50

FAMILY ANOMIIDÆ.

GENUS ANOMIA.

1006 A. ephippium, Linn. Florida..... 15
1007 A. " var. lampe, Gray. L.C. 15

GENUS PLACUNANOMIA.

1008 P. macroschisma, Desh, California... 25

FAMILY OSTREIDÆ.

GENUS OSTREA.

1009 O. lurida, Cpr. California..... 10
1010 O. " var. expansa, Cpr. Cal..... 10
1011 O. amara, Cpr. Lower California..... 20
1012 O. conchaphilla, Cpr. " 15
1013 O. palmula, Cpr. " 15

CLASS BRANCHIPODA.

FAMILY DISCINIDÆ.

GENUS DISCINA.

1014 D. cumingii, Brod. Lower California 50

FAMILY LINGULIDÆ.

GENUS GLOTIDÆ.

1015 G. albida, Hds. California..... 50
1016 G. antillarium, var, pyrimidata, Stimp. Florida..... 50

ORDER BRYOZOA.

FAMILY DISCOPORIDÆ.

GENUS DEFRACINA.

1017 D. intricata, Busk. California..... 25

LAND SHELLS.

PULMONATA.

FAMILY TESTACELLIDÆ.

GENUS GLANDINA.

1018 G. truncata, Gmel. Florida.....$0 25
1019 G. " var. " 25

FAMILY SELENITIDÆ.

GENUS SELENITES.

A. Smooth forms.

1020 S. concava, Say. Ohio, Ky., Tenn. & N. C 10
1021 S. " var. small. Ohio..... 10
1022 S. " var. Hemphilli, W. G. Binn Washington..... 25
1023 S. " var. Keepi, Hemphill. Cal
1024 S. " var. tenuis, " "
1025 S. " var. occidentalis, " "
1026 S. " var. Vancouverensis, small Oregon..... 15
1027 S. " var. Vancouverensis, Lea. large. Oregon..... 15

B. Forms with reticulated sculpting.

1028 S. concava, var. hybrida, Hemphill, Or. 15
1029 S. " var. sportella, large. Wash 15
1030 S. " var. " typical, " 15
1031 S. " var. " smaller, " 15
1032 S. " var. " v. small " 15
1033 S. " var. Voyana, Newc. " 20
1034 S, " var. " small, " 20
1035 S. " var. transfuga, Hemphill. California..... 20
1036 S. concava, var, simplicilabris, Ancuy California..... 20
1037 S. concava, var. simplicilabris, small, California..... 20
1038 S. concava, var, cælata, Mazyck. Cal. 15
1039 S. " var. Duranti, Newc. " 25
1040 S. " var. Catalinensis, Hemphill. California..... 25

FAMILY LIMACIDÆ.

GENUS ZONITES.

Section Mesomphix.

Depressed.

1041 Z. subplanus, Binn. N. Carolina..... 20
1042 Z. inornatus, Say. Ky..... 10

Subelevated.

1043 Z, Lævigatus, Pfr. N. Carolina..... 20
1044 Z. Rugeli, W. G. Binn. Tenn 20
1045 Z. copnodes, W. G. Binn. " 20

Elevated.

1046 Z. ligerus. Say. Ohio..... 5
1047 Z. " var. demissus, Binn. Ala 10
1048 Z. " var. acerus, Lewis, Ga.... 15

I am strongly impressed that all the above Zonites are but varieties of one species.

1049 Z, Elliotti, Redfield. N, Carolina..... 10
1050 Z. " var. small,..... 10
1051 Z. sculptilis, Bld, Texas. Ga..... 15
1052 Z. " var. major. Tenn 25

Section Hyalina.

1053 Z. nitidus, Mull. Cal., Minn., Utah.. 5
1054 Z. " var. arboreus, Say, Cal., Utah..... 5

GENUS ZONITES (Continued.)

1055 Z. nitidus, var. cronkheitei, Newc. Cal.$0 05
1056 Z. " var. otonis, Florida..... 5
1057 Z. petrophilus, Bld. N. Carolina.....
1058 Z. Wheatleyi, Bld. "
1059 Z.
1060 Z. capsella, Gld. " 15
1061 Z. Whitneyi, Newc. California, Utah. 25
1062 Z. indentatus, Say. Florida..... 15
1063 Z. viridulus, Mke. Washington
1064 Z. minusculus, Morse. Florida, La.. 5
1065 Z. milium? Morse. California..... 5
1066 Z. pygmæa, Drap. " 5

Section Conulus.

1067 Z. fulvus, Drap. Cal., Utah..... 5
1068 Z. " var. Gundlachi, Pfr. Fla.. 10
1069 Z. chersinellus, Dall. California..... 25

Section Gastrodonta.

1070 Z. gularis, Say. N. Carolina, Tenn.. 5
1071 Z. internus, Say. Georgia, N. C..... 5
1072 Z. macilientus, Shutt. Tennessee... 15
1073 Z, suppressus, Say. Florida..... 15
1074 Z. Andrewsi, W. G. Binn. Tenn..... 25
1075 Z. significans, Bld. North Carolina.. 20

Section Pristiloma.

1076 Z. Lansingi, Bld. Washington 21

GENUS VITRIZONITES.

1077 V. latissimus, Lewis. N. Carolina.... 25

GENUS VITRINA.

1078 V. Pfeifferi, Newc. Cal., Utah..... 20

GENUS LIMAX.

1079 L. maximus, Linn. N. Jersey..... 25
1080 L. Hewstonii, J. G. Cooper. Cal..... 20
1081 L. Hemphilli, W. G. Binn. Cal..... 20
1082 L. campestris, Binn. Washington... 15
1083 L. " var. Montanus. Ingersoll. Utah..... 15
1084 L. campestris, var. hyperboreus, West. Oregon..... 15

FAMILY TEBENNOPHORIDÆ.

GENUS TEBENNOPHORUS.

1085 T. carolinensis, Bosc. Ohio..... 25
1086 T. Hemphilli, W. G. Binn. N. C..... 25

FAMILY ARIONIDÆ.

GENUS ARIOLIMAX.

1087 A. Columbianus, Gld. Oregon, Cal... 25
1088 A. " var. maculatus, Cockrell. California..... 25
1089 A. Columbianus, var. Californicus, J. G. Cooper. California..... 25
1090 A. Columbianus, var. straminea, Hemphill. California..... 25
1091 A, niger, J. G. Cooper. California... 15
1092 A, Hemphilli. W. G. Binn. Cal..... 50

GENUS PROPHYSAON.

1093 P. Andersonii, J. G. Cooper. Wash.... 25
1094 P. Hemphill, W. G. Binn. " 25
1095 P. " var. cæruleum, Cockrell. Washington..... 25

GENUS PROPHYSAON. (Conntinued).

1096 P. Hemphilli, var. fasciatum, Cockrell, Washington... 25

GENUS HEMPHILLIA.

1097 H. glandulosa, Bld. & Binn. Oregon. 25
1098 H. " large. Idaho..... 50

GENUS BINNEYA.

1099 B. notabilis, J. G. Cooper..Cal.(shell) 25

FAMILY HELICIDÆ.

GENUS HELIX.

Section Glyptostoma.

1100 G. Newberryanum, W. G. Binn. Cal.
I place this specie here on account of the shell being that of a Zonites, while the animal is said to be true Helix.

Section Microphysa.

1101 H. Ingersolli, Bld. Utah, Oregon..... 15
1102 H. votex. Pfr. Florida..... 15

Section Gonostoma.

1103 H. Yatesii, J. G. Cooper. California 15
1104 H. " var. small. " 15

Section Helicodiscus.

1105 H. lineata, Say. Minnesota..... 5
1106 H. " var. fimbriatus, Wetherby. Georgia..... 20
1107 H. " var. salmonensis, Hemphill. Idaho..... 10

Section Polygyrella,

1108 H. polygyrella, Bld. Idaho..... 20
1109 H. " var. " 20

Section Polygyra.

GROUP OF H. CEREOLUS MUHLF.

1110 H. cereolus, Muhlf. Florida..... 10
1111 H. " var. " 10
1112 H. " var. " 10
1113 H. " var. " 10
1114 H. " var. septemvolva, Say. Fla. 10
1115 H. " var. " medium... 10
1116 H. " var. " small 10
1117 H. " var. Carpenteriana, Bld..... 10
1118 H. " var. " small..... 10
1119 H. " var. volvoxis, Parr. " 10
1120 H. " var. " small 10
1121 H. " var. microdonta, Pfr..... 10

GROUP OF H. TEXASIANA.

1122 H. var. triodontoides, Bld, Texas..... 15
1123 H. var. Dorfeuilliana, Lea. " 15
1124 H. var. Mooreana, W. G. Binn..... 10

GROUP OF H. AVARA.

1125 H. avara, Say. Florida 25
1126 H. auriformis, Bld. Lousiana..... 20
1127 H. pustula, Fer. Florida..... 15

GROUP OF H. AURICULATA.

1128 H. var. uvulifera, Shutt. Florida..... 15
1129 H. var " small. " 20

Section Patula.

GROUP OF H. PERSPECTIVUS.

1130 H. perspectivus, Say. Tenn..... 5
1131 H. " var. elevated. Tenn.... 10
1132 H. " var. Bryanti, Harper. " .. 10
1133 H. " var. striatella, Athy,.... Minnesota..... 5
1134 H. " var. Cronkheitei, Newc. Utah 5
1135 H. astericus, Morse. Washington ... 15
1136 H. " var. conspectus, Bld, Cal. 5

GROUP OF H SOLITARIA.

1137 H. solitaria, Say. large. Idaho..... 15
1138 H. " var. small, elevated..... 10
1139 H. " var. depressed..... 10
1140 H. " var. light colored..... 10
1141 H. " var. " depressed..... 10
1142 H. " var. bandless..... 10
1143 H. alternata, Say. Minn, Ohio, Texas. 10

GROUP OF H. STRIGOSA.

A. shell transversely ribbed.

1144 H. strigosa, var. Idahoensis, Newc. Idaho
1145 H. " var. " small, depressed, Idaho.....
1146 H, " var, Idahoensis, small, elevated. Idaho.....
1147 H, " var. Idahoensis, depressed,
1148 H. " var. Idahoensis, large. Idaho 25
1149 H. " var. Newcombi, Hemphill, Utah.....
1150 H. " var. Newcombi, Hemphill. elevated, Utah.
1151 H. " Newcombi, Hemphill, large.
1152 H. " " " bandless. Utah.....

X. Ribbing variable.

1153 H. strigosa, var. multicostata, large.
1154 H. " var. " smaller. Utah
1155 H. " var. " depressed"
1156 H. " var. " small. "
1157 H. " var. " smaller. "
1158 H. " var. " smallest. "
1159 H. strigosa, var. multicostata, Hemphill. Utah.....
1160 H. " var, multicostata, elevated Utah.....
1161 H. " var. multicostata, delicate, depressed. Utah.....
1162 H. " var. multicostata, elevated, single band. Utah.....
1163 H. " var. multicostata, faintly banded. Utah.....
1164 H. " var. multicostata, clouded, &c. Utah.....
1165 H. " var. multicostata, dentate, Utah.....
1166 H. " multicostata, small; elc'ted Utah.....
1167 H. " multicostata, depressed, Utah.....

X. Ribbing variable,

1168 H. strigosa, var. Gouldi, Hemphill, Utah
1169 H. " var. Gouldi, Utah.....
1170 H. " var. Gouldi, dentate, Utah.
1171 H. " var. " conical "
1172 H. " var. " smaller "
1173 H. " var. " depressed "
1174 H. " var. " elevated "
1175 H. " var. " very small "

X. Bandless forms,

1176 H. strigosa, var. Binneyi, Hemphill. Utah.....
1177 H. " var. Binneyi, Hemphill. Utah
1178 H. " var. Binneyi, Hemphill. Utah.....

GROUP OF H. STRIGOSA. (Continued).

1179 H. strigosa, var. Binneyi, depressed. Utah.....
1180 H. " var, Binneyi, elevated. Utah.....
1181 H. " var. Binneyi, depressed Utah.....
1182 H " var. Binneyi, dentate. Utah.....
1183 H. " var. Binneyi, elevated, large. Utah.....
1184 H. " var. Binneyi, depressed, large. Utah.....

X. Banded forms, ribbing variable.

1185 H. strigosa, var. albofasciata, Hemphill. Utah.....
1186 H. " var. albofasciata, large elevated. Utah.....
1187 H. " var. albofasciata, smaller depressed. Utah.....
1188 H. " var. albofasciata, elevated Utah.....
1189 H. " var. albofasciata, smaller Utah.....
1190 H. " var. albofosciata, dentate Utah.....
1191 H. " var. albofasciata, very small, Utah.....
1192 H. " var. castaneus, Hemphill. Utah.....
1193 H. " var. castaneus, smooth. Ore.

X. Shell keeled, ribbing irregular.

1194 H. strigosa, var. Wahsatchensis, Utah
1195 H. " var. " tall, narrow. Utah
1196 H. " var. Wahsatchensis, small, Utah.....
1197 H. " var. intersum, Hemphill, Idaho.....
1198 H. " var. intersum, small. Idaho.

B. Shell smooth or with rough striæ.

Keeled.

1199 H. strigosa, var. Utahensis, Hemphill, Utah
1200 H. " var. Utahensis, small, Utah

X. Subcarinated forms.

1201 H. strigosa, var. subcarinata, Idaho..
1202 H. " var. picta, Hemphill, "
1203 H. " var. bicolor, " "
1204 H. " var. " depressed, "
1205 H. " var. lactea, "
1206 H. " var. parma, Washington,

X. Whorls convex, striæ rough.

1207 H. strigosa, var. rugosa, Hemphill...
1208 H. " var, " depressed...
1209 H. " var, " smaller.....
1210 H. " var. " smallest
1211 H. " var. Cooperi, W. G. Binn.
1212 H. " var, " "
1213 H. " var. " "
1214 H. " var. " "
1215 H. " var. fragilis, Hemphill...
1216 H. " var. " depressed...
1217 H. " var. " small.....
1218 H strigosa, var Buttonii, Hemphill, Utah.....

GROUP OF H. STRIGOSA. (Continued).

1219 H. strigosa, var. Buttonii, smaller. Utah
1220 H. " var. " depressed. "
1221 H. " var. " dentate. "
1222 H. " var. " smaller. "
1223 H. " var. " "
1224 H. " var. " depressed. "
1225 H. " var. " very small. "

Typical forms of H. strigosa.

1226 H. strigosa, Gld, Utah.....
1227 H. " " depressed. Utah....
1228 H. " " "
1229 H. " " larger. "
1230 H. " " variable. "
1231 H. " " " "
1232 H. " " large. "
1233 H. " var. jugalis, Hemphill. Utah.
1234 H. " var. " medium. "
1235 H. " var. " small. "

Bandless forms.

1236 H. strigosa, var. corneus, Hemphill.
1237 H. " var. " elevated. ...
1238 H. " var. " depressed...
1239 H. " var. " variable
1240 H. " var, " "
1241 H. " var. " small.....
1242 H. " var. albida, Hemphill....
1243 H. " var. " depressed...,
1244 H. " var. " smaller, ele'td
1245 H. " var. " small.....

C. Shell with revolving ribs, Subangled or keeled.

1246 H. strigosa, var. hybrida, Hemphill.
1247 H. " var. " elevated ..
1248 H. " var. " small.....
1249 H. " var. Hemphilli, Newc.....
1250 H. " var. " smaller...
1251 H. " var. Oquirrhensis, Hemphill.
1252 H. " var. "
1253 H. " var. " small...
1254 H. " var. Haydeni, Gabb.....
1255 H. " var, " small...
1256 H. " var. Gabbana, Hemphill.
1257 H. " var. " small.....

Section Mesodon.

GROUP OF H. GRISEOLA.

1258 H. grisola, Pfr. Texas..... 20

GROUP OF H. ALBOLABRIS.

1259 H. Albolabris, Say. Minnesota..... 15
1260 H. " var. Andrewsi, W. A. Binn, Tennessee 25
1261 H. " var. major, Binn. Georgia. 35
1262 H. " var. exoleta, Say, Ohio..... 20
1263 H. " var. thyroides, say. Ohio. 15
1264 H. multilineata, Say. Minnesota 10
1265 H. Mitchelliana, Lea. Ohio..... 15
1266 H. Wheatleyi, Bld. North Carolina.. 20
1267 H. Pennsylvanica, Green. Ohio..... 15
1268 H. profunda, Say. Minnesota 15
1269 H. Jejuna, Say. Florida..... 20
1270 H. " var. " 20

GROUP OF H. PALLIATA.

1271 H. palliata, Say. Tennessee..... 15
1272 H. " var. appressa, Say. N. C. 10
1273 H. " var. " small. " 15

GROUP OF H. PALLIATA (Continued.)

1274 H. Romeri, Pfr. Texas$0 20
1275 H. " var. toothless..... 20
1276 H. " var. Wetherbyi, Bld. Tenn.

GROUP OF H. DEVIUS.

1277 H. Columbiana, var. labiosa, Gld. Ore. 15
1278 H. " var. " small. " 15
1279 H. " var..... 10
1280 H. " typical, Oregon..... 10
1281 H. " var. depressus, Hemphill. Oregon 15
1282 H. " var. dentata, Hemphill. California..... 15
1283 H. " var. armigerus, Ancey. California..... 15
1284 H. devius, Gld, large. Washington.. 20
1285 H. " var. cognatus, Hemphill. Oregon 15
1286 H. " var. Oregonensis, Hemphill. Oregon..... 15
1287 H. " var. Blandi, Hemphill, large, Oregon..... 15
1288 H. " var. Blandi, typical..... 15
1289 H. " var. binominata, Tryon. Idaho 15
1290 H. " var. binominata, medium. Idaho 10
1291 H. " var. binominata, large. Idaho 15
1292 H. " var. Mullanii, Bld. Idaho. 15
1293 H. " var. Salmonensis, Tryon. Idaho 20

GROUP OF H. TRIDENTATA.

Umbilicus—open.

1294 H. tridentata, Say. small. Georgia. 5
1295 H. " var. large. Ohio..... 10
1296 H. " var. fallax, Say. Tenn.. 10
1297 H. " var. Van Nostrandi, Bld. 10
1298 H. " var. " small. Georgia..... 10
1299 H. " var. introferens, Bld. Tenn 15
1300 H. " var. Sanburni, W.G.Binn. Idaho..... 15
1301 H. " var. Sanburni, small. Idaho..... 15
1302 H. " var. Hopetonensis, Shutt. Florida..... 15
1303 H. " var. Hopetonensis, small. 15

Umbilicus—closed.

1304 H. tridentata, var. inflecta, Say. Ohio 5
1305 H. " var. " small. " 5
1306 H. " var. Ruglei, Shutt, Ga. 10
1307 H. " var. " small. " 10

GROUP OF H. SPINOSUM.

1308 H. spinosum. Lea. Tennessee..... 20
1309 H. barbigerum, Redf. Georgia..... 25

GROUP OF H. STENOTREMA.

1310 H. Stenotrema, Fer. Tennessee 5
1311 H. " var. small. " 5
1312 H. " var. hirsutum, Say. Ohio..... 5
1313 H. " var. small..... ... 5
1314 H. " var. " depressed. Ohio 10

GROUP OF H. MONODON.

1315 H. monodon, Rackett. Minnesota... 5
1316 H. germanum, Gld. Washington..... 15
1317 H. " var. small. " 15
1318 H. loricata, Gld, large. California... 10
1319 H. " var. medium. " ... 5
1320 H. " var. very small. " ... 5
1321 H. " var. umbilicata. " ... 15

GROUP OF H. TOWNSENDIANA.

1322 H. Townsendiana, var. ptychophora. Brown, small.....$0 15
1323 H. " var. ptychophora, large, Idaho.. 15
1324 H. " var. ptychophora, albino. Idaho,..... 15
1325 H. " var. ptychophora, medium, Idaho..... 15
1326 H. " var. ptychophora, typical. Idaho..... 15
1327 H. " var. castaneus. Idaho 25
1328 H. " var. large. Idaho..... 15
1329 H. Townsendiana, Lea, typical Wash.. 25
1330 H. arrosa, var. exarata Pfr. Cal. 15
1331 H. " var. " elevated. " 15
1332 H. " var. " medium. " 15
1333 H. " Gld. typical. " 15
1334 H. " var. small, " 20
1335 H. " var. flavus. " 20
1336 H. " var. niger. " 20
1337 H. " var. depressed. " 20
1338 H. tudiculata, var. depressed, large. " 20
1339 H. " typical, " 15
1340 H. " var. subdolus, Hemphill California..... 15
1341 H. " var. subdolus, small. California..... 15
1342 H. " var. Tularensis, Hemphill. California..... 20

GROUP OF H. CALIFORNIENSIS.

1343 H. Californiensis, var. Diabloensis, J. G. Cooper 20
1344 H. " var. ramentoso, Gld. California..... 20
1345 H. " var. Bridgesi, Newc. California 20
1346 H. " var. Bridgesi, small. California 20
1347 H. " var. Nickliniana. Lea California..... 15
1348 H. " var. Nickliniana, small..... 15
1349 H. Californiensis, Lea. typical, Calif.. 20
1350 H. " " small " 20

GROUP OF H. FIDELIS.

1351 H. fidelis, Gray. Oregon..... 15
1352 H. " var. minor, Binn. Oregon. 20
1353 H. " var. dark..... 15
1354 H. " var. subangulata. Hemphill 20
1355 H. " var. " small..... 20
1356 H. " var. infumati, Gld..... 20
1357 H. " var. mormonum, Pfr. Cal. 15
1358 H. " var. " " 15
1359 H. " var. " " 25
1360 H. " var. Dupetithouarsi, Desh... 10
1361 H. " var. " small.. 10
1362 H. " var. sequoicola, Cooper..... 25

1363 H. " var. Traskii, Newc., large.. 20
1364 H. " var. " typical..... 20
1365 H. " var. cuyamacensis 20
1366 H. " var. " small 20
1367 H. " var. proles, Hemphill..... 20
1368 H. rufocineta, Newc. Cal..... 20
1369 H. " var. minor..... 20
1370 H. " var. Gabbi, Newc., large.. 25
1371 H. " var. " small 15
1372 H. " var. " 15
1373 H. " var. " 15
1374 H. " var. facta, Newc..... 15
1375 H. " var. " elevated..... 15
1376 H. " var. " depressed 15
1377 H. " var. " bandless 15

GROUP OE H. KELLETTI.

1378 H. Kelletti, Fbs. California Islands.... 15
1379 H. " var. A,castaneus, Hemphill California Islands.. 10
1380 H. " var. nitidus, Hemphill. California Islands.. 20
1381 H. " var. multilineata, Hemphill. Cal. Islands... 20
1382 H. " var. frater, Hemphill. California Islands.. 20
1383 H. " var. Californica, Hemphill. Cal. Islands.. 20
1384 H. " var. Forbesi, Hemphill, California Islands.. 20
1385 H. " var. bicolor, Hemphill. California Islands.. 20
1386 H. " var. tricolor, Hemphill. California Islands.. 20
1387 H. " var. Stearnsiana, Gabb. California... 20
1388 H. " var. " medium.. 15
1389 H. " var. " small... .. 20
1390 H. " var. redimita, Binn. Islands 20
1391 H. " var. hybrida, Hemphill, Islands..... 20
1392 H. " var. B,castaneus, Hemphill 20
1393 H. " aspersa, Mull., introduced. California 20

GROUP OF H. INTERCISA.

1394 H. Ayresiana, Newc. Cal. Islands ... 20
1395 H. " var. " small.. 20
1396 H. intercisa, Binn. California Islands. 20
1397 H. " var. minor. " .. 20
1398 H. " var. elegans. " .. 20
1399 H. " var. nepos. " .. 20
1400 H. " var. albida. " .. 20
1401 H. Tryonii, Newc. large. " .. 20
1402 H. " var. small. " .. 20
1403 H. " var. varius 20
1404 H. " var. " A small..... 20
1405 H. " var. nebulosa..... 20
1406 H. " var. " B small..... 20
1407 H. " var. " C 20
1408 H. " var. fasciata..... 20
1409 H. " var. " D small 20
1410 H. " var. Californica 20
1411 H. " var. " E small.... 20
1412 H. " var. albida..... 20
1413 H. " var. " F small..... 20

GROUP OF H. AREOLATA.

1414 H. areolata, Fbs. Lower California.. 20
1415 H. " var. Veitchii, Newc,L. C. 20

GROUP OF H. AREOLATA. (Continued.)

1416 H. areolata, var. Cedrosensis, Hemphill, Lower Cal..... 20
1417 H. " var. albida, Hemphill..... 20
1418 H. " var. levis, Pfr. Lower Cal. 20
1419 H. " var. " " " 20
1420 H. " var. " " " 20

Section Vallonia.

1421 H. pulchella, var. costata, Mull, Utah. 5

Section Strobila.

1422 H. labyrinthica, Say. Minnesota 5

FAMILY PUPIDÆ.

GENUS PUPA.

Section Pupilla.

1423 P. Sterri Voith. Utah..... 10
1424 P. Blandi, Morse. Utah..... 5
1425 P. Rowelli, Newc. California..... 10
1426 P. Californica, Rowell. California ... 5
1427 P. " var. meriodionalis, Sterki. California 15
1428 P. " var. trinotata, Sterki. Cal. 15
1429 P. " var. catalinaria, Sterki." 15
1430 P. corpulenta, Morse. Utah 10
1431 P. castanea, Sterki. California..... 15
1432 P. calamitosa, Pilsbry. " 15
1433 P. Hemphilli, Sterki. " 15

Section Lucocheila.

1434 P. modica, Gld. Florida 5
1435 P. Arizonensis, Gabb. Nevada..... 20
1436 P. rupicola, Say. Florida..... 5
1437 P. hordeacella, Pilsbry. Florida..... 10
1438 P. armifera, Say. Ohio..... 5
1439 P. contracta, Say. Minnesota..... 5

Section Vertigo.

1440 P. pentodon. Minnesota 5

GENUS STROPHIA.

1441 S. incana, Binn. Florida 15
1442 S. " var. " 15
1443 S. " var. " 15
1444 S. " var. " 15

FAMILY STENOGYRIDÆ.

GENUS RUMINA.

1445 R. subula, Pfr. South Carolina..... 15

Section Melanella.

1446 R. gracillima, Pfr. Florida..... 25

GENUS FERUSSACIA.

1447 F. subcylindrica, Linn. Utah, N. C... 5

FAMILY CYLINDRELLIDÆ.

GENUS CYLINDRELLA.

1448 C. Poeyana, Pfr. Florida..... 20

GENUS MACROCERAMUS.

1449 M, pontificus, Gld. Florida 15
1450 M. " var. small..... 15

FAMILY BULIMULIDÆ.

GENUS BULIMULUS.

1451 B, multilineatus, Say. Florida..... 20
1452 B. Marielinus, Poey. Florida..... 50
1453 B. Schiedeanus, Pfr. Texas..... 15
1454 B. " var. " 15

FAMILY ORTHALICIDÆ.

GENUS LIGUUS.

1455 L. fasciatus, Muller. Florida..... 25
1456 L. " var. solida, Say. Florida 25
1457 L. " var. black banded. " 25
1458 L. " var. variable. " 25

GENUS ORTHALICUS.

1459 O. undatus, Brug. Florida 25

FAMILY SUCCINIDÆ.

GENUS SUCCINEA.

1460 S. Haydenii, W. G. Binn. Utah 10
1461 S. Sillimani, Bld. California.. 10
1462 S. versicolor, Tryon. Lousiana 15
1463 S. Salleanus, Pfr. " 15
1464 S. Nuttalliana, Lea. Washington..... 15
1465 S. rusticana, Gld. California..... 15
1466 S. Oregonensis, Lea. " 10
1467 S. obliqua, Say. Minnesota..... 10
1468 S. campestris, Say. Florida..... 15
1469 S. luteola, Gld. Texas..... 10
1470 S. lineata, W. G. Binn. Utah..... 10
1471 S. avara, Say. California, Minn..... 5
1472 S. Gabbi, Tryon. Utah..... 10
1473 S. Lower California 15

FAMILY VERONICELLIDÆ.

GENUS VERONICELLA.

1474 V. Floridana, Binn. Florida

FAMILY ONCHIDIIDÆ.

GENUS ONCHIDIUM.

1475 O. Carpenteri, W. G. Binn. L. Cal... 25

ORDER OPERCULATA.

FAMILY CYCLOSTOMIDÆ.

GENUS CHONDROPOMA.

1476 C. dentatum, Say. Florida..... 15
1477 C. " var. " 15
1478 C. " var. " 15

FAMILY HELICINIDÆ.

GENUS HELICINA.

1479 H. orbiculata, Say. Texas..... 10
1480 H. " var. " 10
1481 H. " var. " 10
1482 H. " var. Hanleyana. La... 10

FRESH-WATER SHELLS.

FAMILY STREPOMATIDÆ.

GENUS ANGITREMA.

1483 A. verrucosa, Raf. Tennessee..... 10

Subgenus Pleurocera.

1484 P. canaliculata, Say. Ohio..... 10
1485 P. ponderosa, Say. Tennessee..... 10
1486 P. affine, Lea. " 16
1457 P. Henryanum, Lea. Georgia..... 10
7488 P. prasinatum, Conr. Alabama 15
1489 P. subulare, Lea. Minnesota..... 5

GENUS GONIOBASIS.

1490 G. lepida, Lea, Alabama..... 5
1491 G. castaneus, Lea. Tennessee..... 5
1492 G. proxima, Say. North Carolina,... 10
1493 G. plicifera, Lea. Oregon 10
1494 G. " var. Oregonensis, Tryon. Ore 15
1495 G. " var. bulimoides, " " 10
1496 G. " var. Leai, Hemphill.. " 10
1497 G. " var. passing into the next " 10
1498 G. " var. rudens, Rve. " 10
1499 G. " var. silicula, Gld. " 10
1500 G. " var. circumlineata, Tryon" 10
1501 G. " var. " attenuated" 10
1502 G. " var. nigrina, Lea. " 10
1403 G. " var. Draytonii. Lea. " 10

GENUS ANCULOSA.

1504 A. pinguis, Lea. Tennessee..... 10
1505 A. carinata, Brug. " 10

FAMILY RISSOIDÆ.

GENUS HYDROBIA.

1506 H. egena? Gld. California 5

GENUS BITHYNELLA.

1507 B. turbiniformis, Tryon. California.. 5
1508 B. Binneyi, Tryon. California..... 5
1509 B. " 5

GENUS AMNICOLA.

1510 A. longinqua, Gld. Utah..... 15
1511 A. limosa, Say. Minnesota..... 5
1512 A. pallida, Hald. New York..... 5

GENUS SOMATOGYRUS.

1513 S. isogonus, Say. New York..... 5
1514 S. aureus, Tryon. Tennessee 5
1515 S. parva, Lea. " 5

GENUS FLUMINICOLA.

1516 F. fusca, Hald. Utah..... 10
1517 F. Hindsi, Baird. Oregon 10
1518 F. Nuttalli, Lea. " 5
1519 F. " var. " 5

GENUS POMATIOPSIS.

1520 P. lapidaria, Say. Minnesota..... 5
1521 P. intermedia, Tryon. Nevada..... 5

FAMILY VALVATIDÆ.

GENUS VALVATA.

1522 V. tricarinata, Say. Minnesota 5
1523 V. virens, Tryon. California..... 10
1524 V. sincera, Say. Idaho..... 15

FAMILY PALUDINIDÆ.

GENUS MELANTHO.

1525 M. ponderosa, Say. Tennessee..... 10
1526 M. integra, Say. Minnesota..... 10

FAMILY AMPULARIDÆ.

GENUS AMPULARIA.

Subgenus Pomus.

1527 P. caliginosus, Rve. Florida..... 25

FAMILY LIMNÆIDÆ.

GENUS LIMNÆA.

1528 L. stagnalis, Linn. Minnesota..... 15
1529 L. " var. appressa, Say. Utah.... 15
1530 L. " var. occidentalis, Hemphill. 25
1531 L. columella, Say. Georgia..... 15

GENUS RADIX.

1532 R. ampla, Mighels, Idaho..... 15
1533 R. " var. Washington 15
1534 R. " var. California 15

GENUS LIMNOPHYSA.

1535 L. catascopium, Say. Oregon..... 5
1536 L. " var. California 5
1537 L. " var. Washington 5
1538 L. " var. bulimoides? Lea. Utah.. 5
1539 L. " var. passing into the next... 5
1540 L. caperata, Say. Washington..... 5
1541 L. " var. Minnesota 5
1542 L. " typical, Utah..... 5
1543 L. humilis, Say. Oregon..... 5
1544 L. proxima, Lea. California..... 5
1545 L. desidiosa, Say, Utah..... 5
1546 L. var. Washington 5
1547 L. var. Wyoming 5
1548 L. var. acuta, Lea. Utah.. 5
1549 L. palustris, var. Nuttalliana, Lea. Utah 5
1550 L. " var. Cal. 5
1551 L. " var. Idaho 5
1552 L. " var. umbrosa, Say, Utah.. 5
1553 L. " var. Cal 5
1554 L. " var. clodes, Say. Utah. 5
1555 L. " var. " Say. Ore 5
1556 L. " var. expansa, Hald. Cal. 5
1557 L. " var. reflexa, Say. Minn. 5
1558 L. " var. " Say. " 3
1559 L. " var. " Say. " 5
1560 L. " var. attenuata. " 5
1561 L. " var. Zebra, Tryon. " 10
1562 L. " var. Kirtlandiana, Lea. Utah 10

GENUS PHYSA.

1563 P. Gabbi, Tryon. California, Oregon 10
1564 P. Carltonii, Lea. California 10
1565 P. ampullacea? Gld. Idaho..... 10
1566 P. Sayi? Tappen. Utah..... 5
1567 P. gyrina, Say. California 5
1568 P. " small, Washington..... 5
1569 P. heterostropha, Say. Oregon, Utah. 5
1570 P. " var. malleata, Tryon. Cal. 5
1571 P. " var. febegera, Lea. " 5
1572 P. " var. penicillata, Hemphill. California..... 5
1573 P. " var. Traskii, Tryon, Cal... 5
1574 P. " var. virginia, Gld. " ... 5
1575 P. " var. occidentalis, Tryon. Cal. 5
1576 P. " var. elliptica, Lea. Wash'n 5

GENUS PHYSA. (Continued.)

1577 P. heterostropha, var. Warreniana, Lea, Oregon... 5
1578 P. " var. brevispira, Lea. Idaho 5
1579 P. " var. D'Orbigneyi, Tryon. Cal 5
1580 P, " var. distinguenda, Tryon. California 5
1581 P. " var. ancillaria, Say. Idaho 5
1582 P. " var. sparsestriata, Tryon. California..... 5
1583 P. " var. niagarensis, Lea. Cal.. 5
1584 P. integra, Hald. California and La... 5
1585 P. " var. Idaho..... 5
1586 P. Cooperi, Lea. California..... 5
1587 P. costata, Newc. " 10

GENUS BULINIS.

1588 B. hypnorum, Linn. Utah..... 5
1589 B. " var. Tryonii Currier, Utah.. 10

SUBGENUS PHYSELLA.

1590 P. globosa? Hald. Idaho..... 10
1591 P. columbiana, Hemphill, Oregon... 10

SUBFAMILY POMPHOLIGINÆ.

GENUS POMPHOLYX.

1592 P. effusa, Lea. Oregon..... 20
1593 P. " var. " 20
1594 P. " var. costata, Hemphill, Or.. 20
1595 P. " var. solida, Dall. Nevada.... 20

SUBFAMILY PLANORBINÆ.

GENUS PLANORBIS.

Whorls subcarinated above and below.

1596 P. trivolvis, var. ammon, Gld. Calif... 25
1597 P. " var. Traskii, Lea. Wash..... 25
1598 P. " var. occidentalis, Cooper, Or. 20
1599 P. " var. passing into next, Ten.. 15
1600 P. " var. bicarinatus, Say. Ore... 10
1601 P. " var. " large flat, Min. 10

Whorls rounded above, subcarinated beneath. Lip of the apeature rising above the plane of the spire.

1602 P. trivolvis, var. Minnesota 10
1603 P, " Say. Utah..... 10
1604 P. " var. tumidus, Cpr. Calif..... 10
1605 P. " var. Oregonisis, Tryon, Ore.. 10
1606 P. " var. Idaho 10

Lips even with or falling below the plane of the spire.

1607 P. trivolvis, var. lentus, Say. Minn.... 10
1608 P. " var. flatter, " 10
1609 P. " var. fallax, Texas..... 10
1610 P. " var. near glabratus, Calif... 10
1611 P. " var. near tumidus, Wash.... 10
1612 P. campanulatus, Say. Minnesota..... 5
1613 P. Liebmani, Dunker, Texas..... 5
1614 P. Havenensis, Pfr, Lousiana..... 10
1615 P. albus, Mull. Minnesota..... 10

Subgenus Gyraulus.

1616 G. vermiculatus, Gld. California..... 10
1617 G. parvus, Say. " 5
1618 G. dilatatus. Gld. Florida..... 5

Subgenus Menetus.

1619 M. opercularis, Gld. California..... 5
1620 M. " var. planulatus, Cooper, Was. 15
1621 M. exactus, Say. Washington..... 5

GENUS SEGMENTINA.

1622 S. armigerus, Say. Minnesota..... 5

SUBFAMILY ANCYLINÆ.

GENUS ANCYLUS.

1623 A. fuscus, Hald. Louisiana..... 10
1624 A. Haldemani, Lea. Tennessee..... 5
1625 A. subrotundatus, Tryon, Oregon.... 5
1626 A. Kootaniensis, Baird, Washington.. 5
1627 A. paralellus, Hald. Minnesota..... 5
1628 A. " var. fragilis, Tryon, Ore..... 5
1629 A. rivularis, Say. Minnesota..... 5

Subgenus Acroluxus.

1630 A. Nuttalli, Hald. Oregon..... 10

GENUS GUNDLACHIA.

1631 G. Californica, Rowell, (young) Cal... 15

CLASS PELECYPODA.

FAMILY CYRENIDÆ.

GENUS SPHÆRUM.

1632 S. sulcatum, Lam. Minnesota..... 5
1633 S. occidentale, Prime. Idaho..... 5
1634 S. roseum, Prime, Washington..... 5
1635 S. stramineum, Conr. California..... 5

GENUS SPHÆRUM. (Continued.)

1636 S. rhomboideum, Say. Idaho..... 5
1637 S. truncatum, Linsley. Minnesota... 5
1638 S. solidulum, Prime. " ... 5
1639 S. patella, Gld. " ... 5
1640 S. triangulare ? Say. Louisiana..... 5
1641 S. lenticula, Gld. Washington..... 5

GENUS PISIDIUM.

1642 P. compressum, Prime. Utah..... 5
1643 P. ferrugineum ? Prime. Washington. 5
1644 P. ultramontanum, Prime. Utah..... 5
1645 P. occidentalis, Newe. California..... 5
1646 P. abditum, Hald. " 5
1647 P. equilaterale, Prime. New York... 5
1648 P. consanguineum ? Prime. Nevada.. 5

FAMILY UNIONIDÆ.

GENUS MARGARITANA.

1649 M. falcata, Gld. purple, Idaho..... 20
1650 M. " var. White, " 20

GENUS ANODONTA.

1651 A. Wahlamatensis, Lea. California.. 20
1652 A. Nuttalliana, Lea. California..... 20
1653 A. Oregonensis, Lea. Oregon..... 20
1654 A. Californiensis ? Lea. Idaho..... 20
1655 A. Augulata, Lea. Cal. and Idaho... 20

FOSSIL SHELLS

From the Later Teritary Beds of Upper and Lower California.

1656 Laqueus Californicus, Dall.....
1657 Cryptomya California, Conr.....
1658 Corbula, luteola, Cpr.....
1659 Solecurtus Californianus, Conr.....
1660 Solen rosaceus, Cpr.....
1661 Macoma Secta, Conr.....
1662 " nasuta, "
1663 " indentata, Cpr.....
1664 " sp.....
1665 Tellina Bodgensis, Hds.....
1666 " punicea, var.....
1667 " tumida, Sby.....
1668 " sp.....
1669 Angulus Gouldi, Cpr.....
1670 Clementia subdiaphana, Cpr.....
1671 Amiantis callosa, Conr.....
1672 Tivela crassatelloides, Conr.....
1673 Raeta undulata, Gld.....
1674 Chione simillima, Sby.....
1675 " succincta, Val.....
1676 " fluctifraga, Sby.....
1677 " sp.....
1678 " gnidea, Brod. and Sowb.....
1679 Dosinia ponderosa, Gray.....
1680 Tapes staminea, Conr.....
1681 Saxidomus Nuttalli, Conr.....
1682 Petricola pholadiformis, var.....
1683 Cardium procerum, Sowb.....
1684 Liocardium, Conr.....
1685 Cardita ventricosa, Gld.....
1686 Lucina nuttalli, Conr.....
1687 " crenulata, Cpr.....
1688 Felania.....
1689 Arca tuberculosa, Sby.....
1690 Nucula exigua, Sby.....
1691 Leda.....
1692 Pecten Cerrosensis, Gabb.....
1693 " expansus, Dall.....
1694 " stearnsii, Dall.....
1695 " Hemphilli, Dall.....
1696 " æquisulcatus, Cpr.....
1697 " paucicostatus, Cpr.....
1698 " hastatus, Sby.....
1699 Janaira dentula, Sby.....
1700 Ostrea lurida, Cpr.....
1701 " amara, Cpr.....
1702 " Cerrosensis, Gabb.....

1703 Tornatina culcitella, Gld.....
1704 " inculta, Gld.....
1705 Melampus olivaceus, Cpr.....
1706 Dentalum hexagonum, Sby.....

1707 Dentalum semipolitum, Cpr.....
1708 A. insessa, Hds.....
1709 Fissurella volcano, Rve.....
1710 Chlorostoma Pfeifferi, Phil.....
1711 " aureotinctum, Fbs.....
1712 " funebrale, Ad.....
1713 Calliostoma Palmeri, Dall.....
1714 " tricolor, Gabb.....
1715 Omphalins fuscescens, Phil.....
1716 Crucibulum spinosum, Sby.....
1717 Crepidula adunca, Sby.....
1718 " rugosa, Nutt.....
1719 Serpulorbis squamigerus, Cpr.....
1720 Turritella gonostoma, var.....
1721 " Cooperi, Cpr.....
1722 Cœcum Californicum, Dall.....
1723 Cerithidea Sacrata, Gld.....
1724 " " var. albonodosa.....
1725 Cerithuim Stercus—muscarum.....
1726 Bittium quadrifilatum, Cpr.....
1727 Lacuna vincta Mont. Cpr.....
1728 Myurella Simplex, Cpr.....
1729 Drillia inermis, Hds.....
1730 " Hemphilli, Stearns.....
1731 Pleurotoma maculata, Sby.....
1732 Sercula Carpenteriana, Gabb.....
1733 Mangilia angulata, Cpr.....
1734 Conus Californicus, Hds.....
1735 Eulima micans, Cpr.....
1736 Scalaria Hindsii ? Cpr.....
1737 " Hemphilli, Dall.....
1738 " indianorum, var, tincta.....
1739 Opalia varicostata, Stearns.....
1740 " anomala, Stearns.....
1741 Neverita Recluziana, Petit.....
1742 Ranella muriciformis, Brod.....
1743 " Californica, Hds.....
1744 Oliva arenosa, Lam.....
1745 " angulata, Lam.....
1746 Olivella biplicata, Cpr.....
1747 " bætica, Cpr.....
1748 Nassa fossata, Gld.....
1749 " perpinguis, Hds.....
1750 " tegula, Rve.....
1751 Alia gausapata, Gld.....
1752 " Goulii, Cpr.....
1753 Anachis coronata, Sby.....
1754 Amphissa versicolor, Dall.....
1755 Strombina gibberula, Sby.....
1756 Monoceros engonatum, Conr.....
1757 Chorus Belcheri, Hds.....
1758 Cerostoma monoceros, Sowb.....
1759 Siphonalia pallida, B and S.....
1760 Pteronotus festivus, Hds.....
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